

Compound, structure, or table-entry number	New	Known	mp	IR	UV-Vis	<sup>1</sup> H-NMR	<sup>13</sup> C-NMR	MS	HRMS	Optical rotation	ee	Note
2.75	x			x		x	x	x	x			—
2.76	x			x		x	x	x	x			—
2.77		x				x	x					[108]
2.78		x				x	x					[109]
2.79	x			x		x	x	x	x			—
2.81	x			x		x	x	x	x			—
2.82	x		x	x		x	x	x	x			—
2.83	x			x		x	x	x	x			—
2.84	x			x		x	x	x	x			—
2.85	x			x		x	x	x	x			—
2.86	x			x		x	x	x	x			—
2.87	x		x	x		x	x	x	x			—
2.88	x		x	x		x	x	x	x			—
2.90	x					x	x	x	x			—
2.93		x				x	x					[110]
2.94		x	x			x	x					[111]
2.98		x				x	x					[112]
2.100		x				x	x					[113]
2.101		x				x	x					[114]
2.106		x				x	x					[115]
2.107		x				x	x					[116]
2.108		x				x	x					[112]
2.112		x				x	x					[117]
2.114		x				x	x					[118]
2.115	x		x	x		x	x	x	x			—
2.116	x			x		x	x	x	x			—
2.117		x				x	x					[119]
2.118		x				x	x					[120]
2.119	x			x		x	x	x	x			—
2.120	x			x		x	x	x	x			—
2.121	x			x		x	x	x	x			—
2.124	x		x	x		x	x	x	x			—
2.125		x	x			x	x					[121]
2.126	x		x	x		x	x	x	x			—
2.127	x		x	x		x	x	x	x			—
2.129		x	x			x	x					[122]
2.130	x		x	x		x	x	x	x			—
2.131	x			x		x	x	x	x			—
2.132	x			x		x	x	x	x			—

Compound, structure, or table-entry number	New	Known	mp	IR	UV-Vis	<sup>1</sup> H-NMR	<sup>13</sup> C-NMR	MS	HRMS	Optical rotation	ee	Note
2.133	x		x	x		x	x	x	x			—
2.134	x		x	x		x	x	x	x			—
2.135	x			x		x	x	x	x			—
2.136	x			x		x	x	x	x			—
2.137	x			x		x	x	x	x			—
2.138	x			x		x	x	x	x			—
2.139	x		x	x		x	x	x	x			—
2.140	x			x		x	x	x	x			—
2.141	x			x		x	x	x	x			—
2.142	x		x			x	x	x	x			—
2.143	x			x		x	x	x	x			—
2.146		x	x			x	x					[123]
2.147		x				x	x					[124]
2.148	x		x			x	x	x	x			—
2.153		x	x			x	x					[102]
2.154		x				x	x					[102]
2.155		x				x	x					[125]
2.156	x			x		x	x	x	x			—
2.157	x		x	x		x	x	x	x			—
2.158	x			x		x	x	x	x			—
2.159		x				x	x					[125]
2.160	x		x	x		x	x	x	x			—
2.161	x			x		x	x	x	x			—
2.162	x			x		x	x	x	x			—
2.163	x		x	x		x	x	x	x			—
2.164	x		x	x		x	x	x	x			—
2.165	x			x		x	x	x	x			—
2.166	x		x	x		x	x	x	x			—
2.167	x			x		x	x	x	x			—
2.169	x		x	x		x	x	x	x			—
2.170	x			x		x	x	x	x			—
2.171	x			x		x	x	x	x			—
2.172	x		x	x		x	x	x	x			—
2.173	x			x		x	x	x	x			—
2.174	x			x		x	x	x	x			—
2.175	x			x		x	x	x	x			—
2.176	x			x		x	x	x	x			—
2.177	x			x		x	x	x				—
2.178	x		x	x		x	x	x	x			—

Compound, structure, or table-entry number	New	Known	mp	IR	UV-Vis	<sup>1</sup> H-NMR	<sup>13</sup> C-NMR	MS	HRMS	Optical rotation	<i>ee</i>	Note
2.179	x			x		x	x	x	x			—
2.180	x			x		x	x	x	x			—
2.181	x			x		x	x	x	x			—
2.182	x			x		x	x	x	x			—
2.184	x			x		x	x	x	x			—
3.124		x				x	x					[213]
3.127	x			x		x	x	x	x			—
3.128	x			x		x	x	x	x			—
3.129	x			x		x	x	x	x			—
3.133		x	x			x						[214]
3.134	x		x	x		x	x	x	x			—
3.135		x	x			x	x					[215]
3.136	x					x	x	x	x			—
3.137	x		x	x		x	x	x	x			—
3.138	x					x	x	x				—
3.144		x	x			x	x					[216]
3.145	x			x		x	x	x	x			—
3.146	x			x		x	x	x	x			—
3.147	x			x		x	x	x	x			—
3.148	x					x	x	x	x			—
3.149	x			x		x	x	x	x			—
3.151		x				x	x					[217]
3.153	x			x		x	x	x	x			—
3.154	x			x		x	x	x	x			—
3.155		x				x	x					[218]
3.156		x				x	x					[219]
3.159		x				x	x					[217]
3.160	x			x		x	x	x	x			—
3.161	x			x		x	x	x	x			—
3.162		x				x	x					[220]
3.163	x			x		x	x	x	x			—
3.165		x				x	x					[221]
3.166	x			x		x	x	x	x			—
3.168	x			x		x	x	x	x			—
3.169	x			x		x	x	x	x			—
3.170	x			x		x	x	x	x			—
3.171	x			x		x	x	x	x			—
3.172	x			x		x	x	x	x			—
3.173	x			x		x	x	x	x			—

Compound, structure, or table-entry number	New	Known	mp	IR	UV-Vis	<sup>1</sup> H-NMR	<sup>13</sup> C-NMR	MS	HRMS	Optical rotation	ee	Note
3.174	x			x		x	x	x	x			—
3.177	x					x	x	x	x			—
3.178		x				x	x					[222]
3.179	x			x		x	x	x	x			—
3.180	x			x		x	x	x	x			—
3.181	x			x		x	x	x	x			—
3.182	x			x		x	x	x	x			—
3.183	x			x		x	x	x	x			—
3.184	x			x		x	x	x	x			—
3.186	x			x		x	x	x	x			—
3.187	x					x	x	x	x			Gemisch
3.188	x					x	x	x	x			Gemisch
3.189		x				x	x					[223]
3.191		x				x	x					[224]
3.192	x					x	x	x	x			—
3.193	x			x		x	x	x	x			—
3.194	x			x		x	x	x	x			—
3.206		x				x	x					[225]
3.208		x				x	x					[226]
3.210	x			x		x	x	x	x			—
3.211	x			x		x	x	x	x			—
3.212	x			x		x	x	x				—
3.217	x			x		x	x	x	x			—
3.219		x				x	x					[227]
3.220	x			x		x	x	x	x			—
3.222	x			x		x	x	x	x			—
3.223	x			x		x	x	x	x			—
3.224	x			x		x	x	x	x			—
3.225	x		x	x		x	x	x	x			—
3.226	x					x	x					[217]
3.229	x			x		x	x	x	x			—
3.230	x			x		x	x	x	x			—
3.231	x			x		x	x	x	x			—
3.232	x			x		x	x	x	x			—
3.233	x			x		x	x	x	x			—
3.234	x					x	x					[217]
3.238	x			x		x	x	x	x			—
3.239	x			x		x	x	x	x			—
3.240	x			x		x	x	x	x			—

Compound, structure, or table-entry number	New	Known	mp	IR	UV-Vis	<sup>1</sup> H-NMR	<sup>13</sup> C-NMR	MS	HRMS	Optical rotation	ee	Note
3.241	x			x		x	x	x	x			—
3.242	x		x	x		x	x	x	x			—
3.244	x					x		x	x			
3.245	x			x		x	x	x	x			—
3.246	x			x		x	x	x	x			—
3.247	x			x		x	x	x	x			—
3.248	x			x		x	x	x	x			—
3.249	x			x		x	x	x	x			—
3.250	x			x		x	x	x	x			—
3.251	x			x		x	x	x	x			—
3.252	x			x		x	x					—
3.253	x			x		x	x	x	x			—
3.254	x			x		x	x	x	x			—
3.255	x			x		x	x	x	x			—
3.256	x			x		x	x	x	x			—
3.257	x		x	x		x	x	x	x			—
3.258	x			x		x	x	x	x			—
3.259	x			x		x	x	x	x			—
3.260	x			x		x	x	x	x			—
3.261	x			x		x	x	x	x			—
3.263	x			x		x	x	x	x			—
3.264	x		x	x		x	x	x	x			—
3.265	x			x		x	x	x	x			—
3.266	x			x		x	x	x	x			—
3.267	x		x	x		x	x	x	x			—
3.268	x		x	x		x	x	x	x			—
3.269	x			x		x	x	x	x			—
3.270	x			x		x	x	x	x			—
3.271	x		x	x		x	x	x	x			—
3.272	x		x	x		x	x	x	x			—
3.274	x			x		x	x	x	x			—
3.276	x			x		x	x	x	x			—
3.282		x				x	x					[228]
3.283	x					x	x					—
3.285	x			x		x	x	x	x			—
3.289		x	x			x	x					[229]



# Publikationen und Poster

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## Publikationen

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V. Belting, N. Krause, "Gold-Catalyzed Cycloisomerization of Alk-4yn-1-ones", *Org. Biomol. Chem.* **2009**, 7, 1221-1225.

N. Krause, V. Belting, C. Deutsch, J. Erdsack, H.T. Fan, B. Gockel, A. Hoffmann-Röder, N. Morita, F. Volz, „Golden Opportunities in Catalysis“, *Pure Appl. Chem.* **2008**, 80, 1063

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## Posterbeiträge

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V. Belting, N. Krause  
„Gold-Catalyzed Cycloisomerization of Alk-4yn-1-ones“  
Mini-Symposium der *International Research Training Group* Münster-Nagoya, Münster, 2009.

V. Belting, N. Krause  
„Gold-Catalyzed Cycloisomerization of Alk-4yn-1-ones“  
2. Tag der Chemie, Technische Universität Dortmund, 2009.





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## Berufserfahrung

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Seit 11/2009 Qualitätsmanager bei Peter Greven Physioderm GmbH  
07/2006-06/2009 Wissenschaftlicher Mitarbeiter an der Technischen Universität Dortmund  
10/2000-08/2001 Zivildienst im Domizil Diepenbrock, Bocholt

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## Hochschulstudium

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Seit 07/2006 Promotion an der Technischen Universität Dortmund in der Organischen Chemie unter Leitung von Prof. Dr. Norbert Krause  
Thema: „Gold-katalysierte Cycloisomerisierung funktionalisierter Alkine“  
08/2005-05/2006 Diplomarbeit an der Technischen Universität Dortmund in der Organischen Chemie unter Leitung von Prof. Dr. Norbert Krause  
Thema: „Gold-katalysierte Tandem-Cycloisomerisierung-Hydroalkoxylierung von Bishomopropargylalkoholen zu Tetrahydrofuranylethern“  
10/2001-05/2006 Chemiestudium an der Technischen Universität Dortmund

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## Schulbildung

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1991-2000 St. Josef Gymnasium in Bocholt; Abschluss: Abitur



# **Eidesstattliche Erklärung**

Hiermit versichere ich an Eides statt, dass ich die vorliegende Arbeit selbständig und nur mit den angegebenen Hilfsmitteln angefertigt habe.

Bocholt, den 22.03.2011

Volker Belting