

Landolt-Börnstein
Group II: Molecules and Radicals

Volume 18
Radical Reaction Rates in Liquids

Subvolume C
Nitrogen-Centered Radicals, AminoxyIs and Related Radicals

Introductory material

General introduction (H. FISCHER)

5	Nitrogen-centered radicals (K.U. INGOLD, J.C. WALTON)	1
5.0	Introduction	1
5.1	Aminyl radicals, RR'N	3
5.2	Aminium radicals, RR'R"N	59
5.3	Carboxamidyl radicals, RR'CON	120
5.4	Sulfamidyl radicals, RR'SON, and sulfonamidyl radicals, RR'SO ₂ N	127
5.5	Imidyl radicals, RCOR'CON	129
5.6	Iminyl radicals, RR'C=N, and isocyanatyl radicals, O=C=N	142
5.7	Alkoxyaminyl radicals, RR'ON and ROR'ON	144
5.8	Thioaminyl radicals, RR'SN	146
5.9	Dithioaminyl radicals, RSR'SN	155
5.10	Hydrazyl radicals, R'R"NNR	158
5.11	Hydrazyl radical cations, (R'R"NNR ₂) ⁺ and related species	164
5.12	Verdazyl and related radicals	167
5.13	DiazirinyI radicals (no entries)	202
5.14	Diazenyl radicals, RN=N	202
5.15	Azidyl radical	214
5.16	Triazenyl radicals and azallyl radicals	224
5.17	Radical ions	224
5.18	Dithiadiazolyl radicals and related cyclic polyaza radicals and radical cations	235
	References for 5	240
6	AminoxyI and related radicals (K.U. INGOLD)	251
6.0	Introduction	251
6.1	AminoxyI radicals, RR'NO	253
6.1.1	Bimolecular self-reactions and radical-dimer equilibria	253
6.1.2	Reactions with a different radical	276
6.1.3	Unimolecular reactions	368
6.1.4	Intermolecular hydrogen-atom abstractions from carbon	400
6.1.5	Intermolecular hydrogen-atom abstractions from oxygen	422
6.1.6	Intermolecular hydrogen-atom abstractions from nitrogen	477
6.1.7	Intermolecular reactions with molecules in excited states	500
6.1.8	Other intermolecular reactions	519
6.2	IminoxyI radicals, RR'C=NO	586
	References for 6	588
	Index of substances for Vols. 13 and 18	