Nordazepam

Other names:	Nordiazepam
	2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-phenyl-
	Chlordesmethyldiazepam
	Dealkylprazepam
	Demethyldiazepam
	Desalkylprazepam
	Desmethyldiazepam
	N-Demethyldiazepam
	N-Deoxydemoxepam
	N-Desmethyldiazepam
	N1-Desmethyldiazepam
	Ro 5-2180
	A 101
	NDZ
	2H-1,4-Benzodiazepin-2-one, 1,3-dihydro-7-chloro-5-phenyl-
	7-Chloro-1,3-dihydro-5-phenyl-2H-1,4-benzodiazepin-2-one
	Calmday
	1-Demethyldiazepam
	N-Deoxydemoxapam
	N-Descyclopropylmethylprazepam
	DMDZ
	Madar
	NDD
	Norprazepam
	Stilny
	Nordaz
	Praxadium
	NSC 46078
Inchi:	InChI=1S/C15H11ClN2O/c16-11-6-7-13-12(8-11)15(17-9-14(19)18-13)10-4-2-1-3-5-10/h
InchiKey:	AKPLHCDWDRPJGD-UHFFFAOYSA-N
Formula:	C15H11ClN2O
SMILES:	O=C1CN=C(c2ccccc2)c2cc(Cl)ccc2N1
Mol. weight [g/mol]:	270.71
CAS:	1088-11-5

Physical Properties

Property code	Value	Unit	Source

gf	415.54	kJ/mol	Joback Method
hf	179.66	kJ/mol	Joback Method
hfus	34.04	kJ/mol	Joback Method
hvap	77.98	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.130		Crippen Method
mcvol	193.300	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinpol	2480.00		NIST Webbook
rinpol	2493.00		NIST Webbook
rinpol	2522.00		NIST Webbook
rinpol	2489.00		NIST Webbook
rinpol	2480.00		NIST Webbook
rinpol	2517.00		NIST Webbook
rinpol	2554.00		NIST Webbook
rinpol	2555.00		NIST Webbook
rinpol	2510.00		NIST Webbook
rinpol	2610.10		NIST Webbook
rinpol	2510.00		NIST Webbook
rinpol	2507.00		NIST Webbook
rinpol	2504.00		NIST Webbook
rinpol	2500.00		NIST Webbook
rinpol	2490.00		NIST Webbook
rinpol	2494.00		NIST Webbook
rinpol	2462.00		NIST Webbook
rinpol	2549.00		NIST Webbook
rinpol	2496.00		NIST Webbook
rinpol	2522.00		NIST Webbook
rinpol	2522.00		NIST Webbook
rinpol	2502.00		NIST Webbook
rinpol	2480.00		NIST Webbook
rinpol	2493.00		NIST Webbook
rinpol	2520.00		NIST Webbook
rinpol	2552.00		NIST Webbook
rinpol	2462.00		NIST Webbook
rinpol	2529.00		NIST Webbook
rinpol	2493.00		NIST Webbook
rinpol	2521.00		NIST Webbook
tb	837.51	K	Joback Method
tc	1129.97	K	Joback Method
tf	639.82	K	Joback Method
vc	0.730	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.79	J/mol×K	837.51	Joback Method
cpg	560.04	J/mol×K	886.25	Joback Method
cpg	572.32	J/mol×K	935.00	Joback Method
cpg	582.62	J/mol×K	983.74	Joback Method
cpg	590.96	J/mol×K	1032.48	Joback Method
cpg	597.36	J/mol×K	1081.22	Joback Method
cpg	601.82	J/mol×K	1129.97	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1088115&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume