Cyclodecanamine, N-methyl-

Other names:	N-Cyclodecylmethylamine
	N-Methylcyclodecylamine
	Cyclodecylamine, N-methyl-
Inchi:	InChI=1S/C11H23N/c1-12-11-9-7-5-3-2-4-6-8-10-11/h11-12H,2-10H2,1H3
InchiKey:	BOYGZZJDNIMQTC-UHFFFAOYSA-N
Formula:	C11H23N
SMILES:	CNC1CCCCCCCCC1
Mol. weight [g/mol]:	169.31
CAS:	80789-66-8

Physical Properties

Property code	Value	Unit	Source
gf	107.18	kJ/mol	Joback Method
hf	-187.22	kJ/mol	Joback Method
hfus	12.78	kJ/mol	Joback Method
hvap	47.63	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.099		Crippen Method
mcvol	164.970	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
tb	537.88	K	Joback Method
tc	764.64	K	Joback Method
tf	259.69	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.84	J/mol×K	537.88	Joback Method
cpg	433.41	J/mol×K	575.67	Joback Method
cpg	456.59	J/mol×K	613.47	Joback Method
cpg	478.40	J/mol×K	651.26	Joback Method
cpg	498.84	J/mol×K	689.06	Joback Method
cpg	517.92	J/mol×K	726.85	Joback Method

cpg	535.65	J/mol×K	764.64	Joback Method

Sources

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=C80789668&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume