

Bis(2-chloroethyl)methylamine

Other names:

- 2,2'-Dichloro-N-methyldiethylamine
- 2,2'-Dichlorodiethyl-methylamine
- 2-Chloro-N-(2-chloroethyl)-N-methylethanamine
- 55-86-7 (chloride)
- Bis(b-chloroethyl)methylamine
- Bis(«beta»-chloroethyl)methylamine
- Bis(Â«betaÂ»-chloroethyl)methylamine
- Chlorethazine
- Chlormethine
- Cloramin
- Di(2-chloroethyl)methylamine
- Dichlor amine
- Diethylamine, 2,2'-dichloro-N-methyl-
- ENT-25294
- Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-
- HN2
- HN2 (amine)
- MBA
- Mechlorethamine
- Mechloroethamine
- Mecloretamina
- Methylbis(2-chloroethyl)amine
- Methylbis(«beta»-chloroethyl)amine
- Methylbis(Â«betaÂ»-chloroethyl)amine
- Methyl-di(2-chloroethyl)amine
- Mustargen
- Mustine
- Mustine Note
- N,N-Bis(2-chloroethyl)methylamine
- N,N-Di(chloroethyl)methylamine
- N-Methyl-2,2'-dichlorodiethylamine
- N-Methyl-bis(2-chloroethyl)amine
- N-Methyl-bis(«beta»-chloroethyl)amine
- N-Methyl-bis(Â«betaÂ»-chloroethyl)amine
- N-Methyl-bis-chloroethylamin
- N-Methyl-lost
- NSC 762
- Nitrogen mustard
- T-1024
- TL 146

«beta», «beta»'-Dichlorodiethyl-N-methylamine
 Â«betaÂ», Â«betaÂ»'-Dichlorodiethyl-N-methylamine
 InChI=1S/C5H11Cl2N/c1-8(4-2-6)5-3-7/h2-5H2,1H3
 HAWPXGHAZFHAD-UHFFFAOYSA-N
 C5H11Cl2N
 CN(CCCl)CCCl
 156.05
 51-75-2

Inchi:
InchiKey:
Formula:
SMILES:
Mol. weight [g/mol]:
CAS:

Physical Properties

Property code	Value	Unit	Source
gf	78.14	kJ/mol	Joback Method
hf	-110.48	kJ/mol	Joback Method
hfus	20.12	kJ/mol	Joback Method
hvap	37.54	kJ/mol	Joback Method
log10ws	-0.79		Crippen Method
logp	1.396		Crippen Method
mcvol	115.770	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
rinpol	1087.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1058.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1083.26		NIST Webbook
rinpol	1084.87		NIST Webbook
ripol	1566.00		NIST Webbook
ripol	1566.00		NIST Webbook
ripol	1566.30		NIST Webbook
ripol	1574.00		NIST Webbook
tb	401.10	K	Joback Method
tc	580.59	K	Joback Method
tf	238.42	K	Joback Method
vc	0.431	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.72	J/molxK	401.10	Joback Method
cpg	212.77	J/molxK	431.01	Joback Method
cpg	222.35	J/molxK	460.93	Joback Method
cpg	231.46	J/molxK	490.84	Joback Method
cpg	240.12	J/molxK	520.76	Joback Method
cpg	248.36	J/molxK	550.67	Joback Method
cpg	256.18	J/molxK	580.59	Joback Method
hvapt	54.60	kJ/mol	303.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.35150e+01
Coeff. B	-4.71471e+03
Temperature range (K), min.	356.43
Temperature range (K), max.	574.72

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=C51752&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
h vap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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