

Aniline mustard

Other names:	Benzenamine, N,N-bis(2-chloroethyl)- Aniline, N,N-bis(2-chloroethyl)- N,N-Bis(2-chloroethyl)aniline «beta»,«beta»'-Dichlorodiethylaniline N,N-Di(2-chloroethyl)aniline Lymphochin Lymphocin Lymphoquin NCS-18429 A 14489 CB 1074 Lymphchin Lymphoquine Mesylerythrol NSC-18429 SK 592 TL 476 Anilinlost N,N-Bis(2-chloroethyl)benzenamine
Inchi:	InChI=1S/C10H13Cl2N/c11-6-8-13(9-7-12)10-4-2-1-3-5-10/h1-5H,6-9H2
InchiKey:	ROSJKFFLIXTTAW-UHFFFAOYSA-N
Formula:	C10H13Cl2N
SMILES:	ClCCN(CCCl)c1ccccc1
Mol. weight [g/mol]:	218.12
CAS:	553-27-5

Physical Properties

Property code	Value	Unit	Source
gf	232.65	kJ/mol	Joback Method
hf	22.85	kJ/mol	Joback Method
hfus	27.11	kJ/mol	Joback Method
hvap	50.94	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.971		Crippen Method
mcvol	162.460	ml/mol	McGowan Method
pc	2704.22	kPa	Joback Method
tb	542.18	K	Joback Method

tc	754.71	K	Joback Method
tf	319.00 ± 1.00	K	NIST Webbook
vc	0.604	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.78	J/mol×K	542.18	Joback Method
cpg	360.97	J/mol×K	577.60	Joback Method
cpg	374.22	J/mol×K	613.02	Joback Method
cpg	386.56	J/mol×K	648.44	Joback Method
cpg	398.06	J/mol×K	683.86	Joback Method
cpg	408.77	J/mol×K	719.29	Joback Method
cpg	418.72	J/mol×K	754.71	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	442.00 ± 1.00	K	2.10	NIST Webbook
tbrp	437.00	K	1.90	NIST Webbook

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=C553275&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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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