2-(tert-Butylamino)ethanol

Other names:	N-t-Butylethanolamine
	tert-Butylethanolamine
	N-tert-Butylethanolamine
	Ethanol, 2-[(1,1-dimethylethyl)amino]-
	«beta»-tert-Butylaminoethanol
	tert-Butylaminoethanol
	Ethanol, 2-(tert-butylamino)-
	NSC 78430
Inchi:	InChI=1S/C6H15NO/c1-6(2,3)7-4-5-8/h7-8H,4-5H2,1-3H3
InchiKey:	IUXYVKZUDNLISR-UHFFFAOYSA-N
Formula:	C6H15NO
SMILES:	CC(C)(C)NCCO
Mol. weight [g/mol]:	117.19
CAS:	4620-70-6

Physical Properties

Property code	Value	Unit	Source
gf	-44.95	kJ/mol	Joback Method
hf	-274.68	kJ/mol	Joback Method
hfus	13.07	kJ/mol	Joback Method
hvap	50.77	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	0.367		Crippen Method
mcvol	111.250	ml/mol	McGowan Method
pc	3585.64	kPa	Joback Method
tb	449.70	K	NIST Webbook
tc	650.46	K	Joback Method
tf	273.28	K	Joback Method
vc	0.414	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	253.51	J/mol×K	475.80	Joback Method

cpg	264.48	J/mol×K	504.91	Joback Method
cpg	274.92	J/mol×K	534.02	Joback Method
cpg	284.82	J/mol×K	563.13	Joback Method
cpg	294.23	J/mol×K	592.24	Joback Method
cpg	303.15	J/mol×K	621.35	Joback Method
cpg	311.62	J/mol×K	650.46	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	364.20	K	3.30	NIST Webbook
tbrp	364.00 ± 1.00	K	3.30	NIST Webbook

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=C4620706&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
tbrp: Boiling point at reduced pressure
tc: Critical Temperature

tf:	Normal melting (fusion) point
vc:	Critical Volume