

2-(tert-Butylamino)ethyl methacrylate

Other names:	2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester Methacrylic acid, 2-(tert-butylamino)ethyl ester tert-Butylaminoethyl methacrylate 2-[(1,1-Dimethylethyl)amino]ethyl 2-methyl-2-propenoate Ageflex FM-4 Ethanol, 2-(tert-butylamino)-, methacrylate N-(tert-Butylamino)ethyl methacrylate tertiary-Butylaminoethyl methacrylate 2-(t-Butyl amino) ethanol, methacrylate Ethanol, 2-(tert-butylamino)-, methacrylate (ester)
Inchi:	InChI=1S/C10H19NO2/c1-8(2)9(12)13-7-6-11-10(3,4)5/h11H,1,6-7H2,2-5H3
InchiKey:	BEWCNXNIQCLWHP-UHFFFAOYSA-N
Formula:	C10H19NO2
SMILES:	<chem>C=C(C)C(=O)OCCNC(C)(C)C</chem>
Mol. weight [g/mol]:	185.26
CAS:	3775-90-4

Physical Properties

Property code	Value	Unit	Source
gf	-29.08	kJ/mol	Joback Method
hf	-334.17	kJ/mol	Joback Method
hfus	19.54	kJ/mol	Joback Method
hvap	51.56	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	1.494		Crippen Method
mcvol	164.880	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
tb	547.99	K	Joback Method
tc	738.96	K	Joback Method
tf	313.98	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.65	J/mol×K	547.99	Joback Method
cpg	418.48	J/mol×K	579.82	Joback Method
cpg	432.54	J/mol×K	611.65	Joback Method
cpg	445.85	J/mol×K	643.48	Joback Method
cpg	458.44	J/mol×K	675.31	Joback Method
cpg	470.34	J/mol×K	707.13	Joback Method
cpg	481.58	J/mol×K	738.96	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=C3775904&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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