

Ethanol, 2-[(1-methylethyl)amino]-

Other names:	(N-Hydroxyethyl)isopropylamine 2-isopropylaminoethanol Ethanol, 2-(isopropylamino)- IPE Isopropylaminoethanol Monoisopropylaminoethanol N-Isopropylaminoethanol N-Isopropylethanolamine N-ethyl-2-hydroxy-1-propanamine NSC 1090 PAE
Inchi:	InChI=1S/C5H13NO/c1-5(2)6-3-4-7/h5-7H,3-4H2,1-2H3
InchiKey:	RILLZYSZSDGYGV-UHFFFAOYSA-N
Formula:	C5H13NO
SMILES:	CC(C)NCCO
Mol. weight [g/mol]:	103.16
CAS:	109-56-8

Physical Properties

Property code	Value	Unit	Source
gf	-58.65	kJ/mol	Joback Method
hf	-250.57	kJ/mol	Joback Method
hfus	14.37	kJ/mol	Joback Method
hvap	49.45	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	-0.023		Crippen Method
mcvol	97.160	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
tb	455.71	K	Joback Method
tc	625.21	K	Joback Method
tf	289.00 ± 0.60	K	NIST Webbook
vc	0.363	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.69	J/molxK	455.71	Joback Method
cpg	219.00	J/molxK	483.96	Joback Method
cpg	227.94	J/molxK	512.21	Joback Method
cpg	236.52	J/molxK	540.46	Joback Method
cpg	244.75	J/molxK	568.71	Joback Method
cpg	252.64	J/molxK	596.96	Joback Method
cpg	260.20	J/molxK	625.21	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C109568&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Solubility of Carbon Dioxide in Aqueous Solutions of Three Secondary Amines: N-(Butylamino)ethanol, 2-(Isopropylamino)ethanol, and 2-(Ethylamino)ethanol Secondary Alkanolamine Solutions:	https://www.doi.org/10.1021/acs.jced.7b00364 https://en.wikipedia.org/wiki/Joback_method

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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