

ETHANOL, 2-(PROPYLTHIO)-

Other names:	2-(propylthio)ethanol 2-Hydroxyethyl n-propyl sulfide Ethanol, 2-(propylthio)- «beta»-Hydroxyethyl-n-propyl sulfide
Inchi:	InChI=1S/C5H12OS/c1-2-4-7-5-3-6/h6H,2-5H2,1H3
InchiKey:	KCWWXXYQPUDKBX-UHFFFAOYSA-N
Formula:	C5H12OS
SMILES:	CCCSCCO
Mol. weight [g/mol]:	120.22

Physical Properties

Property code	Value	Unit	Source
af	0.5964		Cheméo Relay (1.0)
gf	-112.48	kJ/mol	Joback Method
hf	-283.32	kJ/mol	Cheméo Relay (1.0)
hfus	16.92	kJ/mol	Joback Method
hvap	64.10	kJ/mol	Cheméo Relay (1.0)
ie	8.93	eV	Cheméo Relay (1.0)
log10ws	-0.39		Cheméo Relay (1.0)
logp	1.122		Crippen Method
mcvol	103.530	ml/mol	McGowan Method
pc	3960.52	kPa	Joback Method
tb	466.98	K	Cheméo Relay (1.0)
tc	691.62	K	Cheméo Relay (1.0)
tf	209.71	K	Cheméo Relay (1.0)
vc	0.357	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.57	J/mol×K	474.76	Joback Method
cpg	222.54	J/mol×K	505.12	Joback Method
cpg	231.16	J/mol×K	535.49	Joback Method
cpg	239.43	J/mol×K	565.85	Joback Method

cpg	247.36	J/mol×K	596.22	Joback Method
cpg	254.95	J/mol×K	626.58	Joback Method
cpg	262.20	J/mol×K	656.94	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C22812904&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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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