CH2CH2OH

Inchi: InChI=1S/C2H5O/c1-2-3/h3H,1-2H2
InchiKey: HVFGPIFTSJJAKK-UHFFFAOYSA-N
Formula: C2H5O
SMILES: [CH2]CO
Mol. weight [g/mol]: 45.06
CAS: 4422-54-2

Physical Properties

Property code	Value	Unit	Source
affp	745.00	kJ/mol	NIST Webbook
basg	712.50	kJ/mol	NIST Webbook
gf	-118.48	kJ/mol	Joback Method
hf	-181.03	kJ/mol	Joback Method
hfus	6.71	kJ/mol	Joback Method
hvap	36.58	kJ/mol	Joback Method
log10ws	0.47		Crippen Method
logp	-0.187		Crippen Method
mcvol	42.760	ml/mol	McGowan Method
pc	6161.14	kPa	Joback Method
tb	336.64	K	Joback Method
tc	495.45	K	Joback Method
tf	189.49	K	Joback Method
vc	0.158	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	65.76	J/mol×K	336.64	Joback Method
cpg	69.82	J/mol×K	363.11	Joback Method
cpg	73.62	J/mol×K	389.58	Joback Method
cpg	77.18	J/mol×K	416.05	Joback Method
cpg	80.52	J/mol×K	442.51	Joback Method
cpg	83.65	J/mol×K	468.98	Joback Method
cpg	86.59	J/mol×K	495.45	Joback Method

dvisc	0.0290533	Pa×s	189.49	Joback Method
dvisc	0.0099963	Pa×s	214.02	Joback Method
dvisc	0.0042831	Pa×s	238.54	Joback Method
dvisc	0.0021494	Pa×s	263.06	Joback Method
dvisc	0.0012132	Pa×s	287.59	Joback Method
dvisc	0.0007492	Pa×s	312.12	Joback Method
dvisc	0.0004963	Pa×s	336.64	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C4422542&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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