

Ethoxyisopropoxymethane

Other names:	Methane, ethoxy isopropoxy
Inchi:	InChI=1S/C6H14O2/c1-4-7-5-8-6(2)3/h6H,4-5H2,1-3H3
InchiKey:	GZHOLMQPIDPJDF-UHFFFAOYSA-N
Formula:	C6H14O2
SMILES:	CCOCOC(C)C
Mol. weight [g/mol]:	118.17

Physical Properties

Property code	Value	Unit	Source
gf	-212.80	kJ/mol	Joback Method
hf	-436.89	kJ/mol	Joback Method
hfus	10.15	kJ/mol	Joback Method
hvap	33.38	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.405		Crippen Method
mcvol	107.140	ml/mol	McGowan Method
pc	3018.96	kPa	Joback Method
rinpol	688.00		NIST Webbook
rinpol	689.00		NIST Webbook
rinpol	689.00		NIST Webbook
tb	381.08	K	Joback Method
tc	550.20	K	Joback Method
tf	186.84	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.59	J/molxK	381.08	Joback Method
cpg	214.84	J/molxK	409.27	Joback Method
cpg	224.86	J/molxK	437.45	Joback Method
cpg	234.65	J/molxK	465.64	Joback Method
cpg	244.19	J/molxK	493.83	Joback Method
cpg	253.48	J/molxK	522.01	Joback Method

cpg	262.51	J/mol×K	550.20	Joback Method
dvisc	0.0046299	Paxs	186.84	Joback Method
dvisc	0.0018547	Paxs	219.21	Joback Method
dvisc	0.0009402	Paxs	251.59	Joback Method
dvisc	0.0005565	Paxs	283.96	Joback Method
dvisc	0.0003667	Paxs	316.33	Joback Method
dvisc	0.0002611	Paxs	348.71	Joback Method
dvisc	0.0001969	Paxs	381.08	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=R143589&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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