

2-Ethoxyethyl acrylate

Other names:	2-Propenoic acid, 2-ethoxyethyl ester Acrylic acid, 2-ethoxyethanol ester Acrylic acid, 2-ethoxyethyl ester Cellosolve acrylate Ethanol, 2-ethoxy-, acrylate Ethoxyethyl acrylate Ethylene glycol monoethyl ether acrylate Ethylene glycol monoethyl ether propenoate 2-Ethoxyethyl 2-propenoate 2-Ethoxyethylester kyseliny akrylove
Inchi:	InChI=1S/C7H12O3/c1-3-7(8)10-6-5-9-4-2/h3H,1,4-6H2,2H3
InchiKey:	FWWXYLGCHHIKNY-UHFFFAOYSA-N
Formula:	C7H12O3
SMILES:	C=CC(=O)OCCOCC
Mol. weight [g/mol]:	144.17
CAS:	106-74-1

Physical Properties

Property code	Value	Unit	Source
gf	-243.02	kJ/mol	Joback Method
hf	-439.40	kJ/mol	Joback Method
hfus	16.58	kJ/mol	Joback Method
hvap	42.07	kJ/mol	Joback Method
log10ws	-0.56		Crippen Method
logp	0.752		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
tb	447.25	K	NIST Webbook
tc	634.51	K	Joback Method
tf	225.90 ± 0.60	K	NIST Webbook
tf	225.85	K	NIST Webbook
vc	0.451	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.27	J/molxK	454.95	Joback Method
cpg	255.58	J/molxK	484.88	Joback Method
cpg	265.55	J/molxK	514.80	Joback Method
cpg	275.20	J/molxK	544.73	Joback Method
cpg	284.52	J/molxK	574.65	Joback Method
cpg	293.49	J/molxK	604.58	Joback Method
cpg	302.12	J/molxK	634.51	Joback Method
dvisc	0.0022166	Paxs	261.28	Joback Method
dvisc	0.0012324	Paxs	293.56	Joback Method
dvisc	0.0007698	Paxs	325.84	Joback Method
dvisc	0.0005234	Paxs	358.12	Joback Method
dvisc	0.0003793	Paxs	390.39	Joback Method
dvisc	0.0002887	Paxs	422.67	Joback Method
dvisc	0.0002284	Paxs	454.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C106741&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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