

Vinyl crotonate

Other names:	Crotonic acid vinyl ester 2-Butenoic acid, ethenyl ester Vinyl 2-butenoate Vinylester kyseliny krotonove
Inchi:	InChI=1S/C6H8O2/c1-3-5-6(7)8-4-2/h3-5H,2H2,1H3/b5-3+
InchiKey:	IYNRVIKPUTZSOR-HWKANZROSA-N
Formula:	C6H8O2
SMILES:	<chem>C=COC(=O)C=CC</chem>
Mol. weight [g/mol]:	112.13
CAS:	14861-06-4

Physical Properties

Property code	Value	Unit	Source
gf	-66.22	kJ/mol	Joback Method
hf	-169.32	kJ/mol	Joback Method
hfus	13.01	kJ/mol	Joback Method
hvap	37.39	kJ/mol	Joback Method
log10ws	-1.40		Crippen Method
logp	1.249		Crippen Method
mcvol	94.240	ml/mol	McGowan Method
pc	3655.35	kPa	Joback Method
tb	406.70	K	NIST Webbook
tc	604.45	K	Joback Method
tf	222.70	K	Joback Method
vc	0.356	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	169.29	J/molxK	413.81	Joback Method
cpg	209.30	J/molxK	572.68	Joback Method
cpg	202.05	J/molxK	540.91	Joback Method
cpg	194.43	J/molxK	509.13	Joback Method
cpg	186.44	J/molxK	477.36	Joback Method

cpg	178.07	J/mol×K	445.58	Joback Method
cpg	216.19	J/mol×K	604.45	Joback Method
dvisc	0.0002222	Paxs	413.81	Joback Method
dvisc	0.0002805	Paxs	381.96	Joback Method
dvisc	0.0003692	Paxs	350.11	Joback Method
dvisc	0.0005137	Paxs	318.25	Joback Method
dvisc	0.0007690	Paxs	286.40	Joback Method
dvisc	0.0012736	Paxs	254.55	Joback Method
dvisc	0.0024368	Paxs	222.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14861064&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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