CH3CHCH=CH2

Inchi: InChI=1S/C4H7/c1-3-4-2/h3-4H,1H2,2H3
InchiKey: CRPTXKKKIGGDBX-UHFFFAOYSA-N
Formula: C4H7
SMILES: C=C[CH]C
Mol. weight [g/mol]: 55.10
CAS: 16520-21-1

Physical Properties

Property code	Value	Unit	Source
gf	120.58	kJ/mol	Joback Method
hf	50.07	kJ/mol	Joback Method
hfus	3.00	kJ/mol	Joback Method
hvap	23.29	kJ/mol	Joback Method
log10ws	-0.96		Crippen Method
logp	1.397		Crippen Method
mcvol	60.770	ml/mol	McGowan Method
pc	4397.41	kPa	Joback Method
tb	286.46	K	Joback Method
tc	451.98	K	Joback Method
tf	134.45	K	Joback Method
vc	0.226	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	78.36	J/mol×K	286.46	Joback Method
cpg	85.53	J/mol×K	314.05	Joback Method
cpg	92.28	J/mol×K	341.63	Joback Method
cpg	98.64	J/mol×K	369.22	Joback Method
cpg	104.62	J/mol×K	396.80	Joback Method
cpg	110.25	J/mol×K	424.39	Joback Method
cpg	115.53	J/mol×K	451.98	Joback Method
dvisc	0.0003434	Pa×s	134.45	Joback Method
dvisc	0.0002695	Pa×s	159.78	Joback Method

dvisc	0.0002260	Pa×s	185.12	Joback Method
dvisc	0.0001977	Pa×s	210.46	Joback Method
dvisc	0.0001780	Pa×s	235.79	Joback Method
dvisc	0.0001635	Pa×s	261.12	Joback Method
dvisc	0.0001525	Pa×s	286.46	Joback Method

Sources

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=C16520211&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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