

1-Methylallyl acetate

Other names:	Acetic acid 1-buten-3-yl ester 1-Methyl-2-propenyl acetate 3-Buten-2-ol, acetate
Inchi:	InChI=1S/C6H10O2/c1-4-5(2)8-6(3)7/h4-5H,1H2,2-3H3
InchiKey:	LYWCPTCPTWCZSZ-UHFFFAOYSA-N
Formula:	C6H10O2
SMILES:	C=CC(C)OC(C)=O
Mol. weight [g/mol]:	114.14
CAS:	6737-11-7

Physical Properties

Property code	Value	Unit	Source
gf	-148.88	kJ/mol	Joback Method
hf	-291.82	kJ/mol	Joback Method
hfus	9.28	kJ/mol	Joback Method
hvap	37.05	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.124		Crippen Method
mcvol	98.540	ml/mol	McGowan Method
pc	3468.36	kPa	Joback Method
rinpola	760.90		NIST Webbook
rinpola	760.90		NIST Webbook
tb	385.00	K	NIST Webbook
tb	385.70 ± 2.00	K	NIST Webbook
tc	594.78	K	Joback Method
tf	212.78	K	Joback Method
vc	0.370	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	184.94	J/mol×K	409.21	Joback Method
cpg	194.42	J/mol×K	440.14	Joback Method
cpg	203.56	J/mol×K	471.07	Joback Method

cpg	212.35	J/mol×K	502.00	Joback Method
cpg	220.81	J/mol×K	532.93	Joback Method
cpg	228.92	J/mol×K	563.86	Joback Method
cpg	236.69	J/mol×K	594.78	Joback Method
dvisc	0.0040214	Paxs	212.78	Joback Method
dvisc	0.0018765	Paxs	245.52	Joback Method
dvisc	0.0010476	Paxs	278.26	Joback Method
dvisc	0.0006612	Paxs	311.00	Joback Method
dvisc	0.0004556	Paxs	343.73	Joback Method
dvisc	0.0003349	Paxs	376.47	Joback Method
dvisc	0.0002586	Paxs	409.21	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C6737117&Units=SI

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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