

CH₃C(O)O(CH₂)₃CH=CH₂

Other names:	4-Penten-1-ol acetate 4-Penten-1-yl acetate 4-Pentenyl acetate 5-Acetoxy-1-pentene pent-4-ene-1-yl acetate
Inchi:	InChI=1S/C7H12O2/c1-3-4-5-6-9-7(2)8/h3H,1,4-6H2,2H3
InchiKey:	LVHDNIMNOMRZMF-UHFFFAOYSA-N
Formula:	C ₇ H ₁₂ O ₂
SMILES:	C=CCCCOC(C)=O
Mol. weight [g/mol]:	128.17
CAS:	1576-85-8

Physical Properties

Property code	Value	Unit	Source
gf	-138.02	kJ/mol	Joback Method
hf	-307.18	kJ/mol	Joback Method
hfus	15.39	kJ/mol	Joback Method
hvap	39.66	kJ/mol	Joback Method
log10ws	-1.47		Crippen Method
logp	1.516		Crippen Method
mcvol	112.630	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	890.00		NIST Webbook
rinpol	861.00		NIST Webbook
rinpol	861.00		NIST Webbook
rinpol	861.00		NIST Webbook
rinpol	901.90		NIST Webbook
ripol	1204.00		NIST Webbook
ripol	1204.00		NIST Webbook
tb	418.20	K	NIST Webbook
tc	612.55	K	Joback Method
tf	239.05	K	Joback Method
vc	0.432	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.85	J/molxK	432.53	Joback Method
cpg	233.32	J/molxK	462.53	Joback Method
cpg	243.41	J/molxK	492.54	Joback Method
cpg	253.12	J/molxK	522.54	Joback Method
cpg	262.44	J/molxK	552.54	Joback Method
cpg	271.40	J/molxK	582.54	Joback Method
cpg	279.98	J/molxK	612.55	Joback Method
dvisc	0.0028577	Paxs	239.05	Joback Method
dvisc	0.0015177	Paxs	271.30	Joback Method
dvisc	0.0009221	Paxs	303.54	Joback Method
dvisc	0.0006165	Paxs	335.79	Joback Method
dvisc	0.0004423	Paxs	368.04	Joback Method
dvisc	0.0003347	Paxs	400.28	Joback Method
dvisc	0.0002641	Paxs	432.53	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.54662e+01
Coeff. B	-3.91341e+03
Coeff. C	-5.73960e+01
Temperature range (K), min.	315.22
Temperature range (K), max.	442.77

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=C1576858&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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