2-Butanone, 4-(acetyloxy)-

Other names:	2-Butanone, 4-hydroxy-, acetate
	1-Acetoxybutan-3-one
	4-Acetoxy-2-butanone
	CH3C(O)OCH2CH2C(O)CH3
	3-Oxobutyl acetate
	4-(Acetyloxy)-2-butanone
	4-Hydroxy-2-butanone acetate
Inchi:	InChI=1S/C6H10O3/c1-5(7)3-4-9-6(2)8/h3-4H2,1-2H3
InchiKey:	NWCYECXHIYEBJE-UHFFFAOYSA-N
Formula:	C6H10O3
SMILES:	CC(=O)CCOC(C)=O
Mol. weight [g/mol]:	130.14
CAS:	10150-87-5

Physical Properties

Property code	Value	Unit	Source
gf	-363.20	kJ/mol	Joback Method
hf	-524.55	kJ/mol	Joback Method
hfus	15.68	kJ/mol	Joback Method
hvap	44.85	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	0.529		Crippen Method
mcvol	104.410	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
rinpol	985.00		NIST Webbook
rinpol	985.00		NIST Webbook
tb	466.84	K	Joback Method
tc	655.65	K	Joback Method
tf	279.47	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	215.00	J/mol×K	466.84	Joback Method
cpg	224.34	J/mol×K	498.31	Joback Method
cpg	233.35	J/mol×K	529.78	Joback Method
cpg	242.00	J/mol×K	561.25	Joback Method
cpg	250.31	J/mol×K	592.71	Joback Method
cpg	258.27	J/mol×K	624.18	Joback Method
cpg	265.88	J/mol×K	655.65	Joback Method
dvisc	0.0026736	Pa×s	279.47	Joback Method
dvisc	0.0015646	Pa×s	310.70	Joback Method
dvisc	0.0010097	Pa×s	341.93	Joback Method
dvisc	0.0007012	Pa×s	373.16	Joback Method
dvisc	0.0005151	Pa×s	404.38	Joback Method
dvisc	0.0003956	Pa×s	435.61	Joback Method
dvisc	0.0003147	Pa×s	466.84	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	367.20	K	2.70	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10150875&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

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume