

Ethyl 5-acetyl-2-hydroxybenzoate

Other names:	5-Acetyl-2-hydroxybenzoic acid, ethyl ester
Inchi:	InChI=1S/C11H12O4/c1-3-15-11(14)9-6-8(7(2)12)4-5-10(9)13/h4-6,13H,3H2,1-2H3
InchiKey:	VGKYNVLECUYQIL-UHFFFAOYSA-N
Formula:	C11H12O4
SMILES:	CCOC(=O)c1cc(C(C)=O)ccc1O
Mol. weight [g/mol]:	208.21

Physical Properties

Property code	Value	Unit	Source
gf	-372.94	kJ/mol	Joback Method
hf	-580.00	kJ/mol	Joback Method
hfus	28.07	kJ/mol	Joback Method
hvap	71.93	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	1.771		Crippen Method
mcvol	156.970	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
rinpol	1714.00		NIST Webbook
rinpol	1714.00		NIST Webbook
tb	693.52	K	Joback Method
tc	920.09	K	Joback Method
tf	486.48	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.70	J/molxK	693.52	Joback Method
cpg	459.65	J/molxK	882.33	Joback Method
cpg	450.85	J/molxK	844.56	Joback Method
cpg	441.52	J/molxK	806.80	Joback Method
cpg	431.59	J/molxK	769.04	Joback Method
cpg	421.00	J/molxK	731.28	Joback Method
cpg	467.96	J/molxK	920.09	Joback Method

dvisc	0.0000195	Paxs	693.52	Joback Method
dvisc	0.0000273	Paxs	659.01	Joback Method
dvisc	0.0000396	Paxs	624.51	Joback Method
dvisc	0.0000602	Paxs	590.00	Joback Method
dvisc	0.0000962	Paxs	555.49	Joback Method
dvisc	0.0001636	Paxs	520.99	Joback Method
dvisc	0.0003000	Paxs	486.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373312&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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