

Salicylic anhydride, diacetate

Other names:	2-acetoxybenzoic anhydride
Inchi:	InChI=1S/C18H14O7/c1-11(19)23-15-9-5-3-7-13(15)17(21)25-18(22)14-8-4-6-10-16(14)2
InchiKey:	OAWXYINGQXLWOE-UHFFFAOYSA-N
Formula:	C18H14O7
SMILES:	CC(=O)Oc1cccc1C(=O)OC(=O)c1cccc1OC(C)=O
Mol. weight [g/mol]:	342.30
CAS:	1466-82-6

Physical Properties

Property code	Value	Unit	Source
gf	-524.44	kJ/mol	Joback Method
hf	-811.71	kJ/mol	Joback Method
hfus	39.64	kJ/mol	Joback Method
hvap	95.75	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	2.534		Crippen Method
mcvol	240.850	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
tb	957.30	K	Joback Method
tc	1196.42	K	Joback Method
tf	636.91	K	Joback Method
vc	0.905	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.26	J/mol×K	957.30	Joback Method
cpg	735.48	J/mol×K	1156.56	Joback Method
cpg	732.78	J/mol×K	1116.71	Joback Method
cpg	728.62	J/mol×K	1076.86	Joback Method
cpg	722.97	J/mol×K	1037.01	Joback Method
cpg	715.85	J/mol×K	997.15	Joback Method
cpg	736.71	J/mol×K	1196.42	Joback Method
dvisc	0.0000521	Pa×s	957.30	Joback Method

dvisc	0.0000640	Pa×s	903.90	Joback Method
dvisc	0.0000806	Pa×s	850.50	Joback Method
dvisc	0.0001047	Pa×s	797.11	Joback Method
dvisc	0.0001412	Pa×s	743.71	Joback Method
dvisc	0.0001995	Pa×s	690.31	Joback Method
dvisc	0.0002985	Pa×s	636.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1466826&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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