

Salsalate

Other names:

2-Carboxyphenyl salicylate
o-Salicylsalicylic acid
Benzoic acid, 2-hydroxy-, 2-carboxyphenyl ester
Diacesal
Diplosal
Disalcid
Disalicylic acid
Disalyl
Nobacid
Sal Ester Sal
Salical
Salicylic acid, bimolecular ester
Salicylic acid, salicylate
Salicyloylsalicylic acid
Salicylsalicylic acid
Salina
Saloxium
Salysal
Sasapirin
Sasapyrine
Sasapyrinum
NSC-49171
SAA
Sasapyrin
2-Hydroxybenzoic acid 2-carboxyphenyl ester
Disalgesic
Mono-gesic
Salflex
Salicyl salicylate

Inchi:

InChI=1S/C14H10O5/c15-11-7-3-1-5-9(11)14(18)19-12-8-4-2-6-10(12)13(16)17/h1-8,15H

InchiKey:

WVYADZUPLLSGPU-UHFFFAOYSA-N

Formula:

C14H10O5

SMILES:

O=C(Oc1ccccc1C(=O)O)c1ccccc1O

Mol. weight [g/mol]:

258.23

CAS:

552-94-3

Physical Properties

Property code	Value	Unit	Source
chs	-5890.20	kJ/mol	NIST Webbook
gf	-372.09	kJ/mol	Joback Method
hf	-557.62	kJ/mol	Joback Method
hfus	33.97	kJ/mol	Joback Method
hvap	97.57	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	2.310		Crippen Method
mcvol	181.350	ml/mol	McGowan Method
pc	4082.92	kPa	Joback Method
tb	881.02	K	Joback Method
tc	1117.60	K	Joback Method
tf	607.53	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	561.15	J/mol×K	1117.60	Joback Method
cpg	553.98	J/mol×K	1078.17	Joback Method
cpg	546.63	J/mol×K	1038.74	Joback Method
cpg	539.00	J/mol×K	999.31	Joback Method
cpg	531.02	J/mol×K	959.88	Joback Method
cpg	522.57	J/mol×K	920.45	Joback Method
cpg	513.57	J/mol×K	881.02	Joback Method
dvisc	0.0000308	Pa×s	607.53	Joback Method
dvisc	0.0000011	Pa×s	881.02	Joback Method
dvisc	0.0000017	Pa×s	835.44	Joback Method
dvisc	0.0000026	Pa×s	789.86	Joback Method
dvisc	0.0000043	Pa×s	744.28	Joback Method
dvisc	0.0000076	Pa×s	698.69	Joback Method
dvisc	0.0000146	Pa×s	653.11	Joback Method
hfust	29.00	kJ/mol	430.20	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C552943&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
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
hfust:	Enthalpy of fusion at a given temperature
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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