

Salicyl alcohol

Other names:

2-Hydroxybenzenemethanol
2-Hydroxybenzyl alcohol
2-Hydroxymethylphenol
2-Methylolphenol
Benzenemethanol, 2-hydroxy-
Benzyl alcohol, o-hydroxy-
Diathesin
NSC 3814
SAL
Salicain
Salicylic alcohol
Saligenin
Saligenine
Saligenol
o-(Hydroxymethyl)phenol
o-Hydroxybenzyl alcohol
o-Methylolphenol
«alpha»,2-Dihydroxytoluene
«alpha»-Hydroxy-o-cresol
Â«alphaÂ»,2-Dihydroxytoluene
Â«alphaÂ»-Hydroxy-o-cresol

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

2-Hydroxybenzenemethanol
2-Hydroxybenzyl alcohol
2-Hydroxymethylphenol
2-Methylolphenol
Benzenemethanol, 2-hydroxy-
Benzyl alcohol, o-hydroxy-
Diathesin
NSC 3814
SAL
Salicain
Salicylic alcohol
Saligenin
Saligenine
Saligenol
o-(Hydroxymethyl)phenol
o-Hydroxybenzyl alcohol
o-Methylolphenol
«alpha»,2-Dihydroxytoluene
«alpha»-Hydroxy-o-cresol
Â«alphaÂ»,2-Dihydroxytoluene
Â«alphaÂ»-Hydroxy-o-cresol

InChI=1S/C7H8O2/c8-5-6-3-1-2-4-7(6)9/h1-4,8-9H,5H2

CQRYARSYNCAZFO-UHFFFAOYSA-N

C7H8O2

OCc1ccccc1O

124.14

90-01-7

Physical Properties

Property code	Value	Unit	Source
gf	-170.97	kJ/mol	Joback Method
hf	-280.82	kJ/mol	Joback Method
hfus	17.80	kJ/mol	Joback Method
hvap	63.15	kJ/mol	Joback Method
ie	8.58	eV	NIST Webbook
log10ws	-0.29		Aqueous Solubility Prediction Method

logp	0.884		Crippen Method
mcvol	97.470	ml/mol	McGowan Method
pc	5756.64	kPa	Joback Method
tb	559.04	K	Joback Method
tc	771.80	K	Joback Method
tf	358.82	K	Aqueous Solubility Prediction Method
vc	0.304	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.28	J/mol×K	559.04	Joback Method
cpg	233.79	J/mol×K	594.50	Joback Method
cpg	241.68	J/mol×K	629.96	Joback Method
cpg	249.02	J/mol×K	665.42	Joback Method
cpg	255.87	J/mol×K	700.88	Joback Method
cpg	262.29	J/mol×K	736.34	Joback Method
cpg	268.35	J/mol×K	771.80	Joback Method
dvisc	0.0033694	Pa×s	367.61	Joback Method
dvisc	0.0010805	Pa×s	399.51	Joback Method
dvisc	0.0004100	Pa×s	431.42	Joback Method
dvisc	0.0001778	Pa×s	463.32	Joback Method
dvisc	0.0000858	Pa×s	495.23	Joback Method
dvisc	0.0000453	Pa×s	527.13	Joback Method
dvisc	0.0000257	Pa×s	559.04	Joback Method
hfust	21.50	kJ/mol	358.30	NIST Webbook

Sources

- McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>
- NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C90017&Units=SI>
- Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
- Joback Method:** https://en.wikipedia.org/wiki/Joback_method
- Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

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
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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

Latest version available from:

<https://www.cheméo.com/cid/64-057-8/Salicyl-alcohol.pdf>

Generated by Cheméo on 2025-12-24 14:41:21.150373822 +0000 UTC m=+6335478.680414477.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.