

Menthyl salicylate

Other names:	Benzoic acid, 2-hydroxy-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, (1«alpha»,2«beta»,5«alpha»)-
Inchi:	InChI=1S/C17H24O3/c1-11(2)-13-9-8-12(3)10-16(13)20-17(19)14-6-4-5-7-15(14)18/h4-7,
InchiKey:	SJOXEWUZWQYCGI-DVOMOZLQSA-N
Formula:	C17H24O3
SMILES:	CC1CCC(C(C)C)C(OC(=O)c2ccccc2O)C1
Mol. weight [g/mol]:	276.37
CAS:	89-46-3

Physical Properties

Property code	Value	Unit	Source
gf	-177.28	kJ/mol	Joback Method
hf	-571.43	kJ/mol	Joback Method
hfus	32.85	kJ/mol	Joback Method
hvap	77.31	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	4.010		Crippen Method
mcvol	229.080	ml/mol	McGowan Method
pc	2110.00	kPa	Joback Method
tb	781.72	K	Joback Method
tc	1015.59	K	Joback Method
tf	475.55	K	Joback Method
vc	0.794	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.23	J/molxK	781.72	Joback Method
cpg	736.08	J/molxK	820.70	Joback Method
cpg	753.59	J/molxK	859.68	Joback Method
cpg	769.83	J/molxK	898.66	Joback Method
cpg	784.88	J/molxK	937.64	Joback Method
cpg	798.84	J/molxK	976.61	Joback Method
cpg	811.78	J/molxK	1015.59	Joback Method
dvisc	0.0004186	Paxs	475.55	Joback Method

dvisc	0.0001676	Paxs	526.58	Joback Method
dvisc	0.0000789	Paxs	577.61	Joback Method
dvisc	0.0000419	Paxs	628.63	Joback Method
dvisc	0.0000245	Paxs	679.66	Joback Method
dvisc	0.0000155	Paxs	730.69	Joback Method
dvisc	0.0000104	Paxs	781.72	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C89463&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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