

p-tert-Butylphenylsalicylate

Other names:	4-tert-Butylphenyl salicylate Salicylic acid p-tert-butylphenyl ester Benzoic acid, 2-hydroxy-, 4-(1,1-dimethylethyl)phenyl ester Salicyclic acid p-tert-butylphenyl ester UV Absorber NL/3 p-terc. Butylfenylester kyseliny salicylove 4-(t-Butylphenyl) salicyclate Salicyclic acid, 4-(t-butylphenyl) ester
Inchi:	InChI=1S/C17H18O3/c1-17(2,3)12-8-10-13(11-9-12)20-16(19)14-6-4-5-7-15(14)18/h4-11
InchiKey:	DBOSBRHMHENLP-UHFFFAOYSA-N
Formula:	C17H18O3
SMILES:	CC(C)(C)c1ccc(OC(=O)c2ccccc2O)cc1
Mol. weight [g/mol]:	270.32
CAS:	87-18-3

Physical Properties

Property code	Value	Unit	Source
gf	-78.25	kJ/mol	Joback Method
hf	-363.48	kJ/mol	Joback Method
hfus	28.64	kJ/mol	Joback Method
hvap	79.52	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	3.909		Crippen Method
mcvol	216.180	ml/mol	McGowan Method
pc	2527.73	kPa	Joback Method
tb	800.38	K	Joback Method
tc	1048.95	K	Joback Method
tf	533.01	K	Joback Method
vc	0.750	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	700.97	J/mol×K	1048.95	Joback Method

cpg	624.93	J/molxK	800.38	Joback Method
cpg	639.58	J/molxK	841.81	Joback Method
cpg	653.24	J/molxK	883.24	Joback Method
cpg	666.05	J/molxK	924.67	Joback Method
cpg	678.17	J/molxK	966.09	Joback Method
cpg	689.76	J/molxK	1007.52	Joback Method
dvisc	0.0000052	Paxs	800.38	Joback Method
dvisc	0.0001235	Paxs	533.01	Joback Method
dvisc	0.0000595	Paxs	577.57	Joback Method
dvisc	0.0000318	Paxs	622.13	Joback Method
dvisc	0.0000185	Paxs	666.69	Joback Method
dvisc	0.0000115	Paxs	711.26	Joback Method
dvisc	0.0000076	Paxs	755.82	Joback Method
hsubt	137.40	kJ/mol	314.50	NIST Webbook
hvapt	90.40	kJ/mol	387.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C87183&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

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
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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