

# p-tert-Butylphenylsalicylate

<b>Other names:</b>	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
<b>Inchi:</b>	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
<b>InchiKey:</b>	DBOSBRHMHENLP-UHFFFAOYSA-N
<b>Formula:</b>	C17H18O3
<b>SMILES:</b>	CC(C)(C)c1ccc(OC(=O)c2ccccc2O)cc1
<b>Mol. weight [g/mol]:</b>	270.32
<b>CAS:</b>	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	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	689.76	J/molxK	1007.52	Joback Method

cpg	700.97	J/mol×K	1048.95	Joback Method
cpg	624.93	J/mol×K	800.38	Joback Method
cpg	639.58	J/mol×K	841.81	Joback Method
cpg	653.24	J/mol×K	883.24	Joback Method
cpg	666.05	J/mol×K	924.67	Joback Method
cpg	678.17	J/mol×K	966.09	Joback Method
dvisc	0.0000052	Paxs	800.38	Joback Method
dvisc	0.0000076	Paxs	755.82	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
hsubt	137.40	kJ/mol	314.50	NIST Webbook
hvapt	90.40	kJ/mol	387.00	NIST Webbook

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C87183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C87183&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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