

# 2-Ethylhexyl 4-tert-butylbenzoate

<b>Inchi:</b>	InChI=1S/C19H30O2/c1-6-8-9-15(7-2)14-21-18(20)16-10-12-17(13-11-16)19(3,4)5/h10-1
<b>InchiKey:</b>	SBTSOUSSYNGQHT-UHFFFAOYSA-N
<b>Formula:</b>	C19H30O2
<b>SMILES:</b>	CCCCC(CC)COC(=O)c1ccc(C(C)(C)C)cc1
<b>Mol. weight [g/mol]:</b>	290.44

## Physical Properties

Property code	Value	Unit	Source
gf	-21.64	kJ/mol	Joback Method
hf	-469.26	kJ/mol	Joback Method
hfus	30.47	kJ/mol	Joback Method
hvap	68.30	kJ/mol	Joback Method
log10ws	-5.72		Crippen Method
logp	5.357		Crippen Method
mcvol	262.250	ml/mol	McGowan Method
pc	1420.78	kPa	Joback Method
rinsol	2019.00		NIST Webbook
tb	738.40	K	Joback Method
tc	940.58	K	Joback Method
tf	402.41	K	Joback Method
vc	0.999	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.19	J/mol×K	738.40	Joback Method
cpg	788.83	J/mol×K	772.10	Joback Method
cpg	806.32	J/mol×K	805.79	Joback Method
cpg	822.73	J/mol×K	839.49	Joback Method
cpg	838.10	J/mol×K	873.18	Joback Method
cpg	852.48	J/mol×K	906.88	Joback Method
cpg	865.93	J/mol×K	940.58	Joback Method
dvisc	0.0014064	Paxs	402.41	Joback Method
dvisc	0.0006144	Paxs	458.41	Joback Method

dvisc	0.0003214	Paxs	514.41	Joback Method
dvisc	0.0001909	Paxs	570.40	Joback Method
dvisc	0.0001245	Paxs	626.40	Joback Method
dvisc	0.0000871	Paxs	682.40	Joback Method
dvisc	0.0000643	Paxs	738.40	Joback Method

## Sources

<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>
<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=R540331&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540331&amp;Units=SI</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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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