

# Benzoic acid, 2-isopropylphenyl ester

<b>Inchi:</b>	InChI=1S/C16H16O2/c1-12(2)14-10-6-7-11-15(14)18-16(17)13-8-4-3-5-9-13/h3-12H,1-2H
<b>InchiKey:</b>	HRHFLGLKSCJDDM-UHFFFAOYSA-N
<b>Formula:</b>	C16H16O2
<b>SMILES:</b>	CC(C)c1ccccc1OC(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	240.30

## Physical Properties

Property code	Value	Unit	Source
gf	62.67	kJ/mol	Joback Method
hf	-162.06	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	65.19	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	4.029		Crippen Method
mvol	196.220	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
rinpol	1869.00		NIST Webbook
rinpol	1869.00		NIST Webbook
tb	699.67	K	Joback Method
tc	938.10	K	Joback Method
tf	392.60	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.51	J/molxK	699.67	Joback Method
cpg	534.83	J/molxK	739.41	Joback Method
cpg	549.87	J/molxK	779.15	Joback Method
cpg	563.70	J/molxK	818.89	Joback Method
cpg	576.36	J/molxK	858.62	Joback Method
cpg	587.91	J/molxK	898.36	Joback Method
cpg	598.40	J/molxK	938.10	Joback Method
dvisc	0.0013783	Paxs	392.60	Joback Method

dvisc	0.0007141	Paxs	443.78	Joback Method
dvisc	0.0004239	Paxs	494.96	Joback Method
dvisc	0.0002774	Paxs	546.13	Joback Method
dvisc	0.0001953	Paxs	597.31	Joback Method
dvisc	0.0001453	Paxs	648.49	Joback Method
dvisc	0.0001128	Paxs	699.67	Joback Method

## Sources

<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=U368960&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368960&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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