

# Benzoic acid, diphenylmethyl ester

<b>Inchi:</b>	InChI=1S/C20H16O2/c21-20(18-14-8-3-9-15-18)22-19(16-10-4-1-5-11-16)17-12-6-2-7-13
<b>InchiKey:</b>	ZNRTVHASLDGVBC-UHFFFAOYSA-N
<b>Formula:</b>	C20H16O2
<b>SMILES:</b>	O=C(OC(c1ccccc1)c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	288.34

## Physical Properties

Property code	Value	Unit	Source
gf	218.39	kJ/mol	Joback Method
hf	3.38	kJ/mol	Joback Method
hfus	28.94	kJ/mol	Joback Method
hvap	75.71	kJ/mol	Joback Method
log10ws	-5.50		Crippen Method
logp	4.633		Crippen Method
mvol	228.820	ml/mol	McGowan Method
pc	2287.14	kPa	Joback Method
rinpol	2408.00		NIST Webbook
rinpol	2408.00		NIST Webbook
tb	812.89	K	Joback Method
tc	1074.42	K	Joback Method
tf	451.58	K	Joback Method
vc	0.850	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.88	J/molxK	812.89	Joback Method
cpg	662.56	J/molxK	856.48	Joback Method
cpg	676.66	J/molxK	900.07	Joback Method
cpg	689.29	J/molxK	943.65	Joback Method
cpg	700.57	J/molxK	987.24	Joback Method
cpg	710.62	J/molxK	1030.83	Joback Method
cpg	719.56	J/molxK	1074.42	Joback Method
dvisc	0.0010059	Paxs	451.58	Joback Method

dvisc	0.0004978	Paxs	511.80	Joback Method
dvisc	0.0002857	Paxs	572.02	Joback Method
dvisc	0.0001822	Paxs	632.24	Joback Method
dvisc	0.0001257	Paxs	692.45	Joback Method
dvisc	0.0000920	Paxs	752.67	Joback Method
dvisc	0.0000705	Paxs	812.89	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=U368976&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368976&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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