

# Dibenzyl maleate

<b>Inchi:</b>	InChI=1S/C18H16O4/c19-17(21-13-15-7-3-1-4-8-15)11-12-18(20)22-14-16-9-5-2-6-10-16
<b>InchiKey:</b>	CPZVJYPXOWWFSW-QXMHVHEDSA-N
<b>Formula:</b>	C18H16O4
<b>SMILES:</b>	O=C(C=CC(=O)OCc1ccccc1)OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	296.32
<b>CAS:</b>	622-06-0

## Physical Properties

Property code	Value	Unit	Source
gf	-62.12	kJ/mol	Joback Method
hf	-314.17	kJ/mol	Joback Method
hfus	36.23	kJ/mol	Joback Method
hvap	78.48	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.029		Crippen Method
mcvol	227.540	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
tb	821.34	K	Joback Method
tc	1056.62	K	Joback Method
tf	484.70	K	Joback Method
vc	0.856	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	642.98	J/molxK	821.34	Joback Method
cpg	656.54	J/molxK	860.55	Joback Method
cpg	668.88	J/molxK	899.77	Joback Method
cpg	680.08	J/molxK	938.98	Joback Method
cpg	690.19	J/molxK	978.20	Joback Method
cpg	699.29	J/molxK	1017.41	Joback Method
cpg	707.42	J/molxK	1056.62	Joback Method
dvisc	0.0006656	Paxs	484.70	Joback Method
dvisc	0.0003667	Paxs	540.81	Joback Method

dvisc	0.0002260	Paxs	596.91	Joback Method
dvisc	0.0001514	Paxs	653.02	Joback Method
dvisc	0.0001080	Paxs	709.13	Joback Method
dvisc	0.0000810	Paxs	765.23	Joback Method
dvisc	0.0000632	Paxs	821.34	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C622060&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C622060&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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