

# 4,6-Dibenzoyl resorcinol

<b>Inchi:</b>	InChI=1S/C20H14O4/c21-17-12-18(22)16(20(24)14-9-5-2-6-10-14)11-15(17)19(23)13-7-
<b>InchiKey:</b>	GOZHNJTXLALKRL-UHFFFAOYSA-N
<b>Formula:</b>	C20H14O4
<b>SMILES:</b>	O=C(c1ccccc1)c1cc(C(=O)c2ccccc2)c(O)cc1O
<b>Mol. weight [g/mol]:</b>	318.32
<b>CAS:</b>	3088-15-1

## Physical Properties

Property code	Value	Unit	Source
gf	-121.96	kJ/mol	Joback Method
hf	-337.79	kJ/mol	Joback Method
hfus	44.05	kJ/mol	Joback Method
hvap	107.12	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	3.560		Crippen Method
mvol	236.260	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
tb	1011.00	K	Joback Method
tc	1285.56	K	Joback Method
tf	730.24	K	Joback Method
vc	0.775	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	718.80	J/molxK	1011.00	Joback Method
cpg	733.04	J/molxK	1056.76	Joback Method
cpg	747.72	J/molxK	1102.52	Joback Method
cpg	763.12	J/molxK	1148.28	Joback Method
cpg	779.57	J/molxK	1194.04	Joback Method
cpg	797.35	J/molxK	1239.80	Joback Method
cpg	816.78	J/molxK	1285.56	Joback Method
dvisc	0.0000021	Paxs	730.24	Joback Method
dvisc	0.0000011	Paxs	777.03	Joback Method

dvisc	0.0000006	Paxs	823.83	Joback Method
dvisc	0.0000004	Paxs	870.62	Joback Method
dvisc	0.0000002	Paxs	917.41	Joback Method
dvisc	0.0000002	Paxs	964.21	Joback Method
dvisc	0.0000001	Paxs	1011.00	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C3088151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3088151&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>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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