

# Phenol, 2,4-bis(1-methyl-1-phenylethyl)-

<b>Other names:</b>	2,4-Bis(dimethylbenzyl)phenol 2,4-Bis(1-methyl-1-phenylethyl)phenol 2,4-Bis(2-phenylpropan-2-yl)phenol
<b>Inchi:</b>	InChI=1S/C24H26O/c1-23(2,18-11-7-5-8-12-18)20-15-16-22(25)21(17-20)24(3,4)19-13-9
<b>InchiKey:</b>	FMUYQRFTLHAARI-UHFFFAOYSA-N
<b>Formula:</b>	C24H26O
<b>SMILES:</b>	CC(C)(c1ccccc1)c1ccc(O)c(C(C)(C)c2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	330.46
<b>CAS:</b>	2772-45-4

## Physical Properties

Property code	Value	Unit	Source
gf	329.86	kJ/mol	Joback Method
hf	-35.38	kJ/mol	Joback Method
hfus	30.61	kJ/mol	Joback Method
hvap	86.93	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	6.044		Crippen Method
mcvol	283.610	ml/mol	McGowan Method
pc	1800.03	kPa	Joback Method
rinpol	2527.50		NIST Webbook
rinpol	2488.00		NIST Webbook
rinpol	2527.50		NIST Webbook
tb	907.70	K	Joback Method
tc	1175.09	K	Joback Method
tf	568.58	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	887.30	J/mol×K	907.70	Joback Method
cpg	974.27	J/mol×K	1130.52	Joback Method
cpg	957.07	J/mol×K	1085.96	Joback Method

cpg	940.10	J/molxK	1041.39	Joback Method
cpg	923.03	J/molxK	996.83	Joback Method
cpg	905.53	J/molxK	952.26	Joback Method
cpg	992.00	J/molxK	1175.09	Joback Method
dvisc	0.0000016	Paxs	907.70	Joback Method
dvisc	0.0000024	Paxs	851.18	Joback Method
dvisc	0.0000038	Paxs	794.66	Joback Method
dvisc	0.0000065	Paxs	738.14	Joback Method
dvisc	0.0000123	Paxs	681.62	Joback Method
dvisc	0.0000258	Paxs	625.10	Joback Method
dvisc	0.0000631	Paxs	568.58	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2772454&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2772454&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>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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