

# Phenol, 2,5-bis(1-methylethyl)-

<b>Other names:</b>	2,5-Diisopropylphenol p-Diisopropylbenzene monoalc.
<b>Inchi:</b>	InChI=1S/C12H18O/c1-8(2)10-5-6-11(9(3)4)12(13)7-10/h5-9,13H,1-4H3
<b>InchiKey:</b>	VFNUNYPYULIJSN-UHFFFAOYSA-N
<b>Formula:</b>	C12H18O
<b>SMILES:</b>	CC(C)c1ccc(C(C)C)c(O)c1
<b>Mol. weight [g/mol]:</b>	178.27
<b>CAS:</b>	35946-91-9

## Physical Properties

Property code	Value	Unit	Source
chl	-6966.00	kJ/mol	NIST Webbook
gf	-6.56	kJ/mol	Joback Method
hf	-254.10 ± 2.80	kJ/mol	NIST Webbook
hf	-241.00	kJ/mol	NIST Webbook
hfl	-330.00	kJ/mol	NIST Webbook
hfus	19.22	kJ/mol	Joback Method
hvap	89.00	kJ/mol	NIST Webbook
hvap	86.11	kJ/mol	NIST Webbook
log10ws	-3.39		Crippen Method
logp	3.639		Crippen Method
mcvol	162.050	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
tb	585.36	K	Joback Method
tc	806.59	K	Joback Method
tf	345.66	K	Joback Method
vc	0.553	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.79	J/molxK	585.36	Joback Method
cpg	421.56	J/molxK	622.23	Joback Method
cpg	436.33	J/molxK	659.10	Joback Method

cpg	450.20	J/molxK	695.97	Joback Method
cpg	463.24	J/molxK	732.85	Joback Method
cpg	475.53	J/molxK	769.72	Joback Method
cpg	487.16	J/molxK	806.59	Joback Method
dvisc	0.0036943	Paxs	345.66	Joback Method
dvisc	0.0011103	Paxs	385.61	Joback Method
dvisc	0.0004182	Paxs	425.56	Joback Method
dvisc	0.0001862	Paxs	465.51	Joback Method
dvisc	0.0000943	Paxs	505.46	Joback Method
dvisc	0.0000527	Paxs	545.41	Joback Method
dvisc	0.0000319	Paxs	585.36	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=C35946919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35946919&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>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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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