

# Phenol, 4-[2,2-dimethyl-1-(1,1-dimethylethyl)propyl]

Inchi:	InChI=1S/C15H24O/c1-14(2,3)13(15(4,5)6)11-7-9-12(16)10-8-11/h7-10,13,16H,1-6H3
InchiKey:	BMULWKLWORMXCY-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	CC(C)(C)C(c1ccc(O)cc1)C(C)(C)C
Mol. weight [g/mol]:	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	36.45	kJ/mol	Joback Method
hf	-316.49	kJ/mol	Joback Method
hfus	16.08	kJ/mol	Joback Method
hvap	61.29	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.568		Crippen Method
mvol	204.320	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	1752.00		NIST Webbook
tb	643.00	K	Joback Method
tc	872.59	K	Joback Method
tf	386.79	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.77	J/molxK	643.00	Joback Method
cpg	582.53	J/molxK	681.26	Joback Method
cpg	599.92	J/molxK	719.53	Joback Method
cpg	616.10	J/molxK	757.79	Joback Method
cpg	631.22	J/molxK	796.06	Joback Method
cpg	645.45	J/molxK	834.32	Joback Method
cpg	658.94	J/molxK	872.59	Joback Method
dvisc	0.0019516	Paxs	386.79	Joback Method
dvisc	0.0005700	Paxs	429.49	Joback Method

dvisc	0.0002080	Paxs	472.19	Joback Method
dvisc	0.0000897	Paxs	514.89	Joback Method
dvisc	0.0000440	Paxs	557.60	Joback Method
dvisc	0.0000239	Paxs	600.30	Joback Method
dvisc	0.0000141	Paxs	643.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R592926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R592926&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

Latest version available from:

<https://www.chemeo.com/cid/20-837-0/Phenol-4-2-2-dimethyl-1-1-1-dimethylethyl-propyl.pdf>

Generated by Cheméo on 2024-04-23 08:13:23.02008579 +0000 UTC m=+16149251.940663118.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.