

# Phenol, 4-(1-ethyl-1,2,2-trimethylbutyl)

<b>Inchi:</b>	InChI=1S/C15H24O/c1-6-14(3,4)15(5,7-2)12-8-10-13(16)11-9-12/h8-11,16H,6-7H2,1-5H1
<b>InchiKey:</b>	MKEGNHOZJRWEGN-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CCC(C)(C)C(C)(CC)c1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	38.89	kJ/mol	Joback Method
hf	-311.21	kJ/mol	Joback Method
hfus	19.60	kJ/mol	Joback Method
hvap	61.68	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.496		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
tb	643.44	K	Joback Method
tc	868.39	K	Joback Method
tf	401.79	K	Joback Method
vc	0.712	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.32	J/molxK	643.44	Joback Method
cpg	643.47	J/molxK	830.89	Joback Method
cpg	629.45	J/molxK	793.40	Joback Method
cpg	614.58	J/molxK	755.91	Joback Method
cpg	598.70	J/molxK	718.42	Joback Method
cpg	581.66	J/molxK	680.93	Joback Method
cpg	656.77	J/molxK	868.39	Joback Method

dvisc	0.0000151	Paxs	643.44	Joback Method
dvisc	0.0000247	Paxs	603.17	Joback Method
dvisc	0.0000434	Paxs	562.89	Joback Method
dvisc	0.0000832	Paxs	522.62	Joback Method
dvisc	0.0001777	Paxs	482.34	Joback Method
dvisc	0.0004357	Paxs	442.07	Joback Method
dvisc	0.0012794	Paxs	401.79	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R592273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R592273&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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