

# 2,2'-Ethylenebis(4-methyl-6-t-butylphenol)

<b>Inchi:</b>	InChI=1S/C24H34O2/c1-15-11-17(21(25)19(13-15)23(3,4)5)9-10-18-12-16(2)14-20(22(1
<b>InchiKey:</b>	YKUUUTAPMKKPTK-UHFFFAOYSA-N
<b>Formula:</b>	C24H34O2
<b>SMILES:</b>	Cc1cc(CCc2cc(C)cc(C(C)(C)C)c2O)c(O)c(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	354.53
<b>CAS:</b>	6766-56-9

## Physical Properties

Property code	Value	Unit	Source
gf	33.94	kJ/mol	Joback Method
hf	-483.63	kJ/mol	Joback Method
hfus	41.18	kJ/mol	Joback Method
hvap	99.65	kJ/mol	Joback Method
log10ws	-6.56		Crippen Method
logp	6.095		Crippen Method
mcvol	313.240	ml/mol	McGowan Method
pc	1497.67	kPa	Joback Method
tb	976.58	K	Joback Method
tc	1218.28	K	Joback Method
tf	691.44	K	Joback Method
vc	1.073	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1044.54	J/molxK	976.58	Joback Method
cpg	1064.36	J/molxK	1016.86	Joback Method
cpg	1084.21	J/molxK	1057.15	Joback Method
cpg	1104.32	J/molxK	1097.43	Joback Method
cpg	1124.97	J/molxK	1137.72	Joback Method
cpg	1146.38	J/molxK	1178.00	Joback Method
cpg	1168.81	J/molxK	1218.28	Joback Method
dvisc	0.0000013	Paxs	691.44	Joback Method
dvisc	0.0000006	Paxs	738.96	Joback Method

dvisc	0.0000003	Paxs	786.49	Joback Method
dvisc	0.0000002	Paxs	834.01	Joback Method
dvisc	0.0000001	Paxs	881.53	Joback Method
dvisc	7.0880516e-08	Paxs	929.06	Joback Method
dvisc	4.6766807e-08	Paxs	976.58	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=C6766569&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6766569&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>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>mccvol:</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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