

# 2-Butyl-4-methyl phenol

<b>Other names:</b>	2-butyl-p-cresol
<b>Inchi:</b>	InChI=1S/C11H16O/c1-3-4-5-10-8-9(2)6-7-11(10)12/h6-8,12H,3-5H2,1-2H3
<b>InchiKey:</b>	FEXBEKLLSUWSIM-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O
<b>SMILES:</b>	CCCCc1cc(C)ccc1O
<b>Mol. weight [g/mol]:</b>	164.24
<b>CAS:</b>	6891-45-8

## Physical Properties

Property code	Value	Unit	Source
gf	-10.10	kJ/mol	Joback Method
hf	-222.62	kJ/mol	Joback Method
hfus	23.68	kJ/mol	Joback Method
hvap	56.03	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.043		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	3055.79	kPa	Joback Method
rinpol	1333.00		NIST Webbook
rinpol	1333.00		NIST Webbook
tb	563.36	K	Joback Method
tc	779.08	K	Joback Method
tf	364.39	K	Joback Method
vc	0.509	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	357.32	J/molxK	563.36	Joback Method
cpg	371.61	J/molxK	599.31	Joback Method
cpg	385.03	J/molxK	635.27	Joback Method
cpg	397.64	J/molxK	671.22	Joback Method
cpg	409.51	J/molxK	707.17	Joback Method
cpg	420.72	J/molxK	743.13	Joback Method

cpg	431.33	J/mol×K	779.08	Joback Method
dvisc	0.0018765	Paxs	364.39	Joback Method
dvisc	0.0007789	Paxs	397.55	Joback Method
dvisc	0.0003702	Paxs	430.71	Joback Method
dvisc	0.0001957	Paxs	463.88	Joback Method
dvisc	0.0001126	Paxs	497.04	Joback Method
dvisc	0.0000695	Paxs	530.20	Joback Method
dvisc	0.0000453	Paxs	563.36	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6891458&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6891458&amp;Units=SI</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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