

# 4-methyl-2-tert-butyl-6-hydroperoxymethyl-pheno

<b>Inchi:</b>	InChI=1S/C12H18O3/c1-8-5-9(7-15-14)11(13)10(6-8)12(2,3)4/h5-6,13-14H,7H2,1-4H3
<b>InchiKey:</b>	FBNSVMKLQJQJDC-UHFFFAOYSA-N
<b>Formula:</b>	C12H18O3
<b>SMILES:</b>	Cc1cc(COO)c(O)c(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	210.27

## Physical Properties

Property code	Value	Unit	Source
gf	-352.38	kJ/mol	Joback Method
hf	-613.75	kJ/mol	Joback Method
hfus	28.61	kJ/mol	Joback Method
hvap	74.79	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.988		Crippen Method
mvol	173.790	ml/mol	McGowan Method
pc	2841.41	kPa	Joback Method
rinpol	1614.00		NIST Webbook
rinpol	1614.00		NIST Webbook
tb	733.50	K	Joback Method
tc	967.80	K	Joback Method
tf	551.20	K	Joback Method
vc	0.579	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.50	J/molxK	733.50	Joback Method
cpg	488.60	J/molxK	772.55	Joback Method
cpg	499.96	J/molxK	811.60	Joback Method
cpg	510.72	J/molxK	850.65	Joback Method
cpg	521.00	J/molxK	889.70	Joback Method
cpg	530.92	J/molxK	928.75	Joback Method
cpg	540.60	J/molxK	967.80	Joback Method
dvisc	0.0001018	Paxs	551.20	Joback Method

dvisc	0.0000640	Paxs	581.58	Joback Method
dvisc	0.0000422	Paxs	611.97	Joback Method
dvisc	0.0000289	Paxs	642.35	Joback Method
dvisc	0.0000205	Paxs	672.73	Joback Method
dvisc	0.0000149	Paxs	703.12	Joback Method
dvisc	0.0000112	Paxs	733.50	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=R169858&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R169858&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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