

# Patchouli alcohol

**Other names:**

(-)-Patchouli alcohol  
(-)-Patchoulol  
(1R,4S,4aS,6R,8aS)-4,8a,9,9-Tetramethyldecahydro-1,6-methanonaphthalen-1-ol  
1,6-Methanonaphthalen-1(2H)-ol, octahydro-4,8a,9,9-tetramethyl-,  
(1«alpha»,4«beta»,4a«alpha»,6«beta»,8a«alpha»)-  
1,6-Methanonaphthalen-1(2H)-ol, octahydro-4,8a,9,9-tetramethyl-,  
[1R-(1«alpha»,4«beta»,4a«alpha»,6«beta»,8a«alpha»)]-  
Patchoulanol  
Patchoulic alcohol  
[1R-(1«alpha»,4«beta»,4a«alpha»,6«beta»,8a«alpha»)]-octahydro-4,8a,9,9-tetramethyl-  
patchoulol

**Inchi:** InChI=1S/C15H26O/c1-10-5-8-15(16)13(2,3)11-6-7-14(15,4)12(10)9-11/h10-12,16H,5-9H**InchiKey:** GGHMUJBZYLPWFD-UIWQZIKGSA-N**Formula:** C15H26O**SMILES:** CC1CCC2(O)C(C)(C)C3CCC2(C)C1C3**Mol. weight [g/mol]:** 222.37**CAS:** 5986-55-0

## Physical Properties

Property code	Value	Unit	Source
gf	57.05	kJ/mol	Joback Method
hf	-314.38	kJ/mol	Joback Method
hfus	13.22	kJ/mol	Joback Method
hvap	61.37	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.610		Crippen Method
mcvol	195.500	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpole	1657.00		NIST Webbook
rinpole	1660.00		NIST Webbook
rinpole	1663.00		NIST Webbook
rinpole	1666.00		NIST Webbook
rinpole	1657.00		NIST Webbook
rinpole	1639.00		NIST Webbook
rinpole	1665.00		NIST Webbook
rinpole	1657.00		NIST Webbook
rinpole	1683.00		NIST Webbook
rinpole	1654.00		NIST Webbook
rinpole	1665.00		NIST Webbook

rinpol	1659.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1639.80		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1651.00		NIST Webbook
rinpol	1661.00		NIST Webbook
rinpol	1695.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1660.00		NIST Webbook
rinpol	1667.00		NIST Webbook
rinpol	1658.00		NIST Webbook
rinpol	1639.80		NIST Webbook
rinpol	1661.00		NIST Webbook
rinpol	1658.00		NIST Webbook
rinpol	1625.00		NIST Webbook
rinpol	1653.00		NIST Webbook
ripol	2188.00		NIST Webbook
ripol	2156.00		NIST Webbook
ripol	2156.00		NIST Webbook
ripol	2156.00		NIST Webbook
ripol	2186.00		NIST Webbook
tb	650.25	K	Joback Method
tc	863.66	K	Joback Method
tf	425.39	K	Joback Method
vc	0.741	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.75	J/mol×K	650.25	Joback Method
cpg	615.74	J/mol×K	685.82	Joback Method
cpg	634.97	J/mol×K	721.39	Joback Method
cpg	653.76	J/mol×K	756.96	Joback Method
cpg	672.45	J/mol×K	792.52	Joback Method
cpg	691.37	J/mol×K	828.09	Joback Method
cpg	710.84	J/mol×K	863.66	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5986550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5986550&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>Solubility of the Sesquiterpene Alcohol Patchoulol in Supercritical Carbon Dioxide:</b>	<a href="https://www.doi.org/10.1021/je060358w">https://www.doi.org/10.1021/je060358w</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>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>ripol:</b>	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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