

# Phytol, acetate

<b>Other names:</b>	Phytyl acetate trans-phytyl acetate
<b>Inchi:</b>	InChI=1S/C22H42O2/c1-18(2)10-7-11-19(3)12-8-13-20(4)14-9-15-21(5)16-17-24-22(6)23
<b>InchiKey:</b>	JIGCTXHIECXJRJ-LTGZKZEYSA-N
<b>Formula:</b>	C22H42O2
<b>SMILES:</b>	CC(=O)OCC=C(C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	338.57

## Physical Properties

Property code	Value	Unit	Source
gf	-35.21	kJ/mol	Joback Method
hf	-650.62	kJ/mol	Joback Method
hfus	43.85	kJ/mol	Joback Method
hvap	72.60	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	6.935		Crippen Method
mcvol	323.980	ml/mol	McGowan Method
pc	974.73	kPa	Joback Method
rinpol	2218.00		NIST Webbook
rinpol	2222.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2219.00		NIST Webbook
rinpol	2222.00		NIST Webbook
rinpol	2218.00		NIST Webbook
rinpol	2225.00		NIST Webbook
ripol	2438.00		NIST Webbook
ripol	2439.00		NIST Webbook
ripol	2438.00		NIST Webbook
tb	781.77	K	Joback Method
tc	964.72	K	Joback Method
tf	345.82	K	Joback Method
vc	1.254	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.80	J/mol×K	781.77	Joback Method
cpg	1028.28	J/mol×K	812.26	Joback Method
cpg	1047.70	J/mol×K	842.75	Joback Method
cpg	1066.10	J/mol×K	873.25	Joback Method
cpg	1083.53	J/mol×K	903.74	Joback Method
cpg	1100.03	J/mol×K	934.23	Joback Method
cpg	1115.63	J/mol×K	964.72	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=U375014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375014&amp;Units=SI</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>ripol:</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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