

# Geranyl phenylacetate

<b>Other names:</b>	Benzeneacetic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)-trans-3,7-Dimethyl-2,6-octadienyl phenylacetate Acetic acid, phenyl-, 3,7-dimethyl-2,6-octadienyl ester, (E)-Geranyl «alpha»-toluate Phenylacetic acid, geranyl ester
<b>Inchi:</b>	InChI=1S/C18H24O2/c1-15(2)8-7-9-16(3)12-13-20-18(19)14-17-10-5-4-6-11-17/h4-6,8,1
<b>InchiKey:</b>	UXAIJXIHZDZMSK-FOWTUZBSSA-N
<b>Formula:</b>	C18H24O2
<b>SMILES:</b>	CC(C)=CCCC(C)=CCOC(=O)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	272.38
<b>CAS:</b>	102-22-7

## Physical Properties

Property code	Value	Unit	Source
gf	122.51	kJ/mol	Joback Method
hf	-208.26	kJ/mol	Joback Method
hfus	36.99	kJ/mol	Joback Method
hvap	67.17	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.465		Crippen Method
mcvol	239.560	ml/mol	McGowan Method
pc	1659.19	kPa	Joback Method
tb	722.29	K	Joback Method
tc	932.40	K	Joback Method
tf	353.12	K	Joback Method
vc	0.921	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.77	J/molxK	722.29	Joback Method
cpg	681.03	J/molxK	757.31	Joback Method
cpg	697.23	J/molxK	792.33	Joback Method
cpg	712.44	J/molxK	827.34	Joback Method

cpg	726.73	J/mol×K	862.36	Joback Method
cpg	740.17	J/mol×K	897.38	Joback Method
cpg	752.81	J/mol×K	932.40	Joback Method

## Sources

<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=C102227&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C102227&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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