

# trans,trans-Farnesoic acid

**Inchi:** InChI=1S/C15H24O2/c1-12(2)7-5-8-13(3)9-6-10-14(4)11-15(16)17/h7,9,11H,5-6,8,10H2,  
**InchiKey:** WJHFZYAELPOJIV-IJFRVEDASA-N  
**Formula:** C15H24O2  
**SMILES:** CC(C)=CCCC(C)=CCCC(C)=CC(=O)O  
**Mol. weight [g/mol]:** 236.35

## Physical Properties

Property code	Value	Unit	Source
gf	24.69	kJ/mol	Joback Method
hf	-295.45	kJ/mol	Joback Method
hfus	36.97	kJ/mol	Joback Method
hvap	72.52	kJ/mol	Joback Method
log10ws	-4.76		Crippen Method
logp	4.490		Crippen Method
mvol	216.750	ml/mol	McGowan Method
pc	1838.84	kPa	Joback Method
rinpol	1824.00		NIST Webbook
rinpol	1824.00		NIST Webbook
tb	700.77	K	Joback Method
tc	887.37	K	Joback Method
tf	312.44	K	Joback Method
vc	0.844	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	594.65	J/mol×K	700.77	Joback Method
cpg	608.92	J/mol×K	731.87	Joback Method
cpg	622.47	J/mol×K	762.97	Joback Method
cpg	635.37	J/mol×K	794.07	Joback Method
cpg	647.67	J/mol×K	825.17	Joback Method
cpg	659.42	J/mol×K	856.27	Joback Method
cpg	670.69	J/mol×K	887.37	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R506128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R506128&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>hvp:</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>rinp:</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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