

# (2E)-2,6-dimethyl-2,5-heptadienoic acid

<b>Inchi:</b>	InChI=1S/C9H14O2/c1-7(2)5-4-6-8(3)9(10)11/h5-6H,4H2,1-3H3,(H,10,11)/b8-6+
<b>InchiKey:</b>	IGQGIACCENRGLM-SOFGYWHQSA-N
<b>Formula:</b>	C9H14O2
<b>SMILES:</b>	CC(C)=CCC=C(C)C(=O)O
<b>Mol. weight [g/mol]:</b>	154.21

## Physical Properties

Property code	Value	Unit	Source
gf	-97.50	kJ/mol	Joback Method
hf	-279.04	kJ/mol	Joback Method
hfus	22.54	kJ/mol	Joback Method
hvap	59.13	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.374		Crippen Method
mcvol	136.510	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
ripol	2311.00		NIST Webbook
ripol	2311.00		NIST Webbook
tb	559.45	K	Joback Method
tc	746.72	K	Joback Method
tf	263.86	K	Joback Method
vc	0.526	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.53	J/molxK	559.45	Joback Method
cpg	327.49	J/molxK	590.66	Joback Method
cpg	337.85	J/molxK	621.87	Joback Method
cpg	347.66	J/molxK	653.09	Joback Method
cpg	356.94	J/molxK	684.30	Joback Method
cpg	365.74	J/molxK	715.51	Joback Method
cpg	374.09	J/molxK	746.72	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=R334453&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R334453&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>

# 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>	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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