

# 2,6,9,11-Dodecatetraenal, 2,6,10-trimethyl-

<b>Other names:</b>	2,6,10-Trimethyl-2,6,9,11-dodecatetraenal
<b>Inchi:</b>	InChI=1S/C15H22O/c1-5-13(2)8-6-9-14(3)10-7-11-15(4)12-16/h5,8-9,11-12H,1,6-7,10H2
<b>InchiKey:</b>	PFSTYGCVAVZBK-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	<chem>C=CC(C)=CCC=C(C)CCC=C(C)C=O</chem>
<b>Mol. weight [g/mol]:</b>	218.33
<b>CAS:</b>	4955-32-2

## Physical Properties

Property code	Value	Unit	Source
gf	278.75	kJ/mol	Joback Method
hf	9.21	kJ/mol	Joback Method
hfus	32.29	kJ/mol	Joback Method
hvap	55.15	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.381		Crippen Method
mcvol	206.580	ml/mol	McGowan Method
pc	1778.84	kPa	Joback Method
rinpol	1686.00		NIST Webbook
rinpol	1719.00		NIST Webbook
rinpol	1686.00		NIST Webbook
rinpol	1704.00		NIST Webbook
rinpol	1719.00		NIST Webbook
tb	600.06	K	Joback Method
tc	794.25	K	Joback Method
tf	241.93	K	Joback Method
vc	0.817	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.33	J/molxK	600.06	Joback Method
cpg	525.67	J/molxK	632.43	Joback Method
cpg	541.10	J/molxK	664.79	Joback Method

cpg	555.67	J/mol×K	697.16	Joback Method
cpg	569.45	J/mol×K	729.52	Joback Method
cpg	582.51	J/mol×K	761.89	Joback Method
cpg	594.92	J/mol×K	794.25	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4955322&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4955322&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>
<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>rinpolar:</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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