

# Methyl ar-curcumen-12-oate

<b>Inchi:</b>	InChI=1S/C16H22O2/c1-12-8-10-15(11-9-12)13(2)6-5-7-14(3)16(17)18-4/h7-11,13H,5-6H
<b>InchiKey:</b>	XICYLTQBNRFIHM-AUWJEWJLSA-N
<b>Formula:</b>	C16H22O2
<b>SMILES:</b>	COC(=O)C(C)=CCCC(C)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	246.34

## Physical Properties

Property code	Value	Unit	Source
gf	21.93	kJ/mol	Joback Method
hf	-291.16	kJ/mol	Joback Method
hfus	29.00	kJ/mol	Joback Method
hvap	62.95	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	3.998		Crippen Method
mcvol	215.680	ml/mol	McGowan Method
pc	1846.75	kPa	Joback Method
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
ripol	2450.00		NIST Webbook
tb	677.03	K	Joback Method
tc	886.86	K	Joback Method
tf	347.14	K	Joback Method
vc	0.823	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.77	J/molxK	677.03	Joback Method
cpg	594.84	J/molxK	712.00	Joback Method
cpg	610.90	J/molxK	746.97	Joback Method
cpg	625.97	J/molxK	781.95	Joback Method
cpg	640.10	J/molxK	816.92	Joback Method
cpg	653.34	J/molxK	851.89	Joback Method
cpg	665.72	J/molxK	886.86	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R503114&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R503114&amp;Units=SI</a>
<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>

# 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>ripolar:</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

Latest version available from:

<https://www.chemeo.com/cid/51-167-0/Methyl-ar-curcumen-12-oate.pdf>

Generated by Cheméo on 2024-04-23 13:24:29.908191016 +0000 UTC m=+16167918.828768338.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.