

# 15-Acetoxy-ar-curcumene

<b>Inchi:</b>	InChI=1S/C17H24O2/c1-13(2)6-5-7-14(3)17-10-8-16(9-11-17)12-19-15(4)18/h6,8-11,14H
<b>InchiKey:</b>	VITPZYPPUHQNIS-UHFFFAOYSA-N
<b>Formula:</b>	C17H24O2
<b>SMILES:</b>	CC(=O)OCc1ccc(C(C)CCC=C(C)C)cc1
<b>Mol. weight [g/mol]:</b>	260.37

## Physical Properties

Property code	Value	Unit	Source
gf	30.35	kJ/mol	Joback Method
hf	-311.80	kJ/mol	Joback Method
hfus	31.59	kJ/mol	Joback Method
hvap	65.18	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.600		Crippen Method
mvol	229.770	ml/mol	McGowan Method
pc	1703.31	kPa	Joback Method
rinpol	1840.00		NIST Webbook
rinpol	1840.00		NIST Webbook
tb	699.91	K	Joback Method
tc	906.88	K	Joback Method
tf	358.41	K	Joback Method
vc	0.878	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.07	J/mol×K	699.91	Joback Method
cpg	649.48	J/mol×K	734.41	Joback Method
cpg	665.84	J/mol×K	768.90	Joback Method
cpg	681.22	J/mol×K	803.40	Joback Method
cpg	695.65	J/mol×K	837.89	Joback Method
cpg	709.16	J/mol×K	872.39	Joback Method
cpg	721.82	J/mol×K	906.88	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=R503149&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R503149&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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