

# (Z)-«gamma»-Curcumen-12-yl isobutyrate

<b>Inchi:</b>	InChI=1S/C19H30O2/c1-14(2)19(20)21-13-16(4)7-6-8-17(5)18-11-9-15(3)10-12-18/h7,9,
<b>InchiKey:</b>	JAABKYCBTCTCDQ-UGIZUQJLSA-N
<b>Formula:</b>	C19H30O2
<b>SMILES:</b>	CC1=CC=C(C(C)CCC=C(C)COC(=O)C(C)C)CC1
<b>Mol. weight [g/mol]:</b>	290.44

## Physical Properties

Property code	Value	Unit	Source
gf	14.79	kJ/mol	Joback Method
hf	-416.14	kJ/mol	Joback Method
hfus	32.03	kJ/mol	Joback Method
hvap	68.95	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	5.215		Crippen Method
mcvol	262.250	ml/mol	McGowan Method
pc	1431.55	kPa	Joback Method
rinsol	1934.00		NIST Webbook
tb	746.07	K	Joback Method
tc	950.30	K	Joback Method
tf	365.19	K	Joback Method
vc	0.999	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.30	J/mol×K	746.07	Joback Method
cpg	789.36	J/mol×K	780.11	Joback Method
cpg	807.27	J/mol×K	814.15	Joback Method
cpg	824.10	J/mol×K	848.19	Joback Method
cpg	839.87	J/mol×K	882.23	Joback Method
cpg	854.65	J/mol×K	916.26	Joback Method
cpg	868.47	J/mol×K	950.30	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.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=R233291&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R233291&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>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>rinpola:</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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