

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

<b>Inchi:</b>	InChI=1S/C20H32O2/c1-15(2)13-20(21)22-14-17(4)7-6-8-18(5)19-11-9-16(3)10-12-19/h
<b>InchiKey:</b>	QPPLPHFTDAQJEW-PNWYBZRESA-N
<b>Formula:</b>	C20H32O2
<b>SMILES:</b>	CC1=CC=C(C(C)CCC=C(C)COC(=O)CC(C)C)CC1
<b>Mol. weight [g/mol]:</b>	304.47

## Physical Properties

Property code	Value	Unit	Source
gf	23.21	kJ/mol	Joback Method
hf	-436.78	kJ/mol	Joback Method
hfus	34.62	kJ/mol	Joback Method
hvap	71.18	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.605		Crippen Method
mcvol	276.340	ml/mol	McGowan Method
pc	1332.96	kPa	Joback Method
rinpol	2025.00		NIST Webbook
rinpol	2025.00		NIST Webbook
tb	768.95	K	Joback Method
tc	971.56	K	Joback Method
tf	376.46	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	828.63	J/mol×K	768.95	Joback Method
cpg	847.83	J/mol×K	802.72	Joback Method
cpg	865.89	J/mol×K	836.49	Joback Method
cpg	882.85	J/mol×K	870.25	Joback Method
cpg	898.75	J/mol×K	904.02	Joback Method
cpg	913.65	J/mol×K	937.79	Joback Method
cpg	927.59	J/mol×K	971.56	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=R233300&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R233300&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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