

# Lateriticone

<b>Inchi:</b>	InChI=1S/C15H22O4/c1-8(2)7-10(16)11-12(17)9(3)14(19-6)15(4,5)13(11)18/h8,11H,7H2
<b>InchiKey:</b>	RXRUOPLAZFLXKJ-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O4
<b>SMILES:</b>	<chem>COC1=C(C)C(=O)C(C(=O)CC(C)C)C(=O)C1(C)C</chem>
<b>Mol. weight [g/mol]:</b>	266.33

## Physical Properties

Property code	Value	Unit	Source
gf	-384.17	kJ/mol	Joback Method
hf	-794.35	kJ/mol	Joback Method
hfus	19.94	kJ/mol	Joback Method
hvap	66.83	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.316		Crippen Method
mcvol	217.630	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
ripol	2388.00		NIST Webbook
ripol	2388.00		NIST Webbook
ripol	2388.00		NIST Webbook
ripol	2388.00		NIST Webbook
ripol	2388.00		NIST Webbook
ripol	2388.00		NIST Webbook
tb	778.33	K	Joback Method
tc	1005.11	K	Joback Method
tf	505.25	K	Joback Method
vc	0.824	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.55	J/molxK	778.33	Joback Method
cpg	683.12	J/molxK	816.13	Joback Method
cpg	700.79	J/molxK	853.92	Joback Method
cpg	717.59	J/molxK	891.72	Joback Method

cpg	733.54	J/mol×K	929.52	Joback Method
cpg	748.70	J/mol×K	967.32	Joback Method
cpg	763.09	J/mol×K	1005.11	Joback Method

## Sources

<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=R323354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R323354&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>

## 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>ripol:</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

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