

# «gamma»-Cadinen-15-al

<b>Inchi:</b>	InChI=1S/C15H22O/c1-10(2)13-6-4-11(3)14-7-5-12(9-16)8-15(13)14/h8-10,13-15H,3-7H
<b>InchiKey:</b>	BUKZRIKRHNKXNN-RBSFLKMASA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	<chem>C=C1CCC(C(C)C)C2C=C(C=O)CCC12</chem>
<b>Mol. weight [g/mol]:</b>	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	112.26	kJ/mol	Joback Method
hf	-212.62	kJ/mol	Joback Method
hfus	21.99	kJ/mol	Joback Method
hvap	56.63	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.760		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
ripol	2423.00		NIST Webbook
ripol	2423.00		NIST Webbook
ripol	2423.00		NIST Webbook
tb	620.01	K	Joback Method
tc	836.70	K	Joback Method
tf	330.33	K	Joback Method
vc	0.738	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.42	J/molxK	620.01	Joback Method
cpg	621.90	J/molxK	800.59	Joback Method
cpg	605.97	J/molxK	764.47	Joback Method
cpg	588.91	J/molxK	728.36	Joback Method
cpg	570.66	J/molxK	692.24	Joback Method
cpg	551.18	J/molxK	656.13	Joback Method
cpg	636.74	J/molxK	836.70	Joback Method

dvisc	0.0004735	Paxs	620.01	Joback Method
dvisc	0.0005597	Paxs	571.73	Joback Method
dvisc	0.0006823	Paxs	523.45	Joback Method
dvisc	0.0008659	Paxs	475.17	Joback Method
dvisc	0.0011599	Paxs	426.89	Joback Method
dvisc	0.0016739	Paxs	378.61	Joback Method
dvisc	0.0026890	Paxs	330.33	Joback Method

## Sources

<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=R420034&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R420034&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.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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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