

# fusicocadiene

<b>Inchi:</b>	InChI=1S/C20H32/c1-13(2)16-10-11-20(5)12-18-15(4)6-8-17(18)14(3)7-9-19(16)20/h13-
<b>InchiKey:</b>	PZSFDLBSQBBERAM-GZRFBZBPSA-N
<b>Formula:</b>	C20H32
<b>SMILES:</b>	CC1=C2CC3(C)CCC(C(C)C)=C3CCC(C)C2CC1
<b>Mol. weight [g/mol]:</b>	272.47

## Physical Properties

Property code	Value	Unit	Source
gf	252.74	kJ/mol	Joback Method
hf	-188.89	kJ/mol	Joback Method
hfus	22.53	kJ/mol	Joback Method
hvap	62.41	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	6.286		Crippen Method
mvol	251.480	ml/mol	McGowan Method
pc	1528.27	kPa	Joback Method
rinpol	1963.00		NIST Webbook
rinpol	1963.00		NIST Webbook
tb	716.61	K	Joback Method
tc	943.77	K	Joback Method
tf	411.88	K	Joback Method
vc	0.951	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	769.44	J/molxK	716.61	Joback Method
cpg	793.97	J/molxK	754.47	Joback Method
cpg	817.31	J/molxK	792.33	Joback Method
cpg	839.64	J/molxK	830.19	Joback Method
cpg	861.14	J/molxK	868.05	Joback Method
cpg	882.01	J/molxK	905.91	Joback Method
cpg	902.44	J/molxK	943.77	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R273937&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R273937&amp;Units=SI</a>
<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>

# 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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