

# Neophytadiene

<b>Inchi:</b>	InChI=1S/C20H38/c1-7-18(4)12-9-14-20(6)16-10-15-19(5)13-8-11-17(2)3/h7,17,19-20H,1
<b>InchiKey:</b>	NIDGCIPAMWNKOA-UHFFFAOYSA-N
<b>Formula:</b>	C20H38
<b>SMILES:</b>	C=CC(=C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	278.52
<b>CAS:</b>	504-96-1

## Physical Properties

Property code	Value	Unit	Source
gf	277.33	kJ/mol	Joback Method
hf	-230.90	kJ/mol	Joback Method
hfus	33.12	kJ/mol	Joback Method
hvap	57.69	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	7.168		Crippen Method
mcvol	284.060	ml/mol	McGowan Method
pc	1092.82	kPa	Joback Method
rinpol	1836.00		NIST Webbook
rinpol	1840.00		NIST Webbook
rinpol	1840.00		NIST Webbook
rinpol	1855.00		NIST Webbook
rinpol	1838.00		NIST Webbook
rinpol	1838.00		NIST Webbook
rinpol	1842.00		NIST Webbook
rinpol	1839.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1842.00		NIST Webbook
rinpol	1844.10		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1840.60		NIST Webbook
rinpol	1837.00		NIST Webbook
rinpol	1837.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1840.00		NIST Webbook
rinpol	1836.00		NIST Webbook
rinpol	1806.00		NIST Webbook

rinpol	1837.00		NIST Webbook
rinpol	1827.00		NIST Webbook
rinpol	1842.00		NIST Webbook
rinpol	1840.60		NIST Webbook
rinpol	1838.00		NIST Webbook
rinpol	1790.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1828.00		NIST Webbook
rinpol	1790.00		NIST Webbook
rinpol	1837.00		NIST Webbook
rinpol	1817.00		NIST Webbook
rinpol	1838.00		NIST Webbook
ripol	1933.00		NIST Webbook
ripol	1915.00		NIST Webbook
ripol	1912.00		NIST Webbook
ripol	1915.00		NIST Webbook
ripol	1922.00		NIST Webbook
ripol	1914.00		NIST Webbook
ripol	1931.00		NIST Webbook
ripol	1931.00		NIST Webbook
ripol	1961.00		NIST Webbook
ripol	1915.00		NIST Webbook
ripol	1910.00		NIST Webbook
tb	648.92	K	Joback Method
tc	820.03	K	Joback Method
tf	252.68	K	Joback Method
vc	1.101	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	794.06	J/mol×K	648.92	Joback Method
cpg	815.13	J/mol×K	677.44	Joback Method
cpg	835.25	J/mol×K	705.96	Joback Method
cpg	854.45	J/mol×K	734.48	Joback Method
cpg	872.75	J/mol×K	763.00	Joback Method
cpg	890.21	J/mol×K	791.51	Joback Method
cpg	906.86	J/mol×K	820.03	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=C504961&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C504961&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>
<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>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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-polar retention indices
<b>r ipol:</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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