

# 10-Heneicosene, 11-phenyl-

<b>Other names:</b>	11-Phenyl-10-heneicosene 11-phenyl-10-henicosene
<b>Inchi:</b>	InChI=1S/C27H46/c1-3-5-7-9-11-13-15-18-22-26(27-24-20-17-21-25-27)23-19-16-14-12
<b>InchiKey:</b>	LCSNKHFQEKIGGQ-XTCLZLMSSA-N
<b>Formula:</b>	C27H46
<b>SMILES:</b>	CCCCCCCCC=C(CCCCCCCCC)c1ccccc1
<b>Mol. weight [g/mol]:</b>	370.65
<b>CAS:</b>	6703-78-2

## Physical Properties

Property code	Value	Unit	Source
gf	360.54	kJ/mol	Joback Method
hf	-256.65	kJ/mol	Joback Method
hfus	58.62	kJ/mol	Joback Method
hvap	78.01	kJ/mol	Joback Method
log10ws	-10.25		Crippen Method
logp	9.742		Crippen Method
mvol	363.230	ml/mol	McGowan Method
pc	853.96	kPa	Joback Method
tb	847.88	K	Joback Method
tc	1041.64	K	Joback Method
tf	401.43	K	Joback Method
vc	1.421	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1170.02	J/molxK	847.88	Joback Method
cpg	1191.72	J/molxK	880.17	Joback Method
cpg	1212.29	J/molxK	912.47	Joback Method
cpg	1231.79	J/molxK	944.76	Joback Method
cpg	1250.30	J/molxK	977.05	Joback Method
cpg	1267.91	J/molxK	1009.35	Joback Method
cpg	1284.70	J/molxK	1041.64	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=C6703782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6703782&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>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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