

# Ethyl 7-phenylnoracadiene-7-carboxylate

<b>Inchi:</b>	InChI=1S/C16H16O2/c1-2-18-15(17)16(12-8-4-3-5-9-12)13-10-6-7-11-14(13)16/h3-11,13
<b>InchiKey:</b>	SZHMIFJETAFZRP-UHFFFAOYSA-N
<b>Formula:</b>	C16H16O2
<b>SMILES:</b>	CCOC(=O)C1(c2ccccc2)C2C=CC=CC21
<b>Mol. weight [g/mol]:</b>	240.30
<b>CAS:</b>	339-98-0

## Physical Properties

Property code	Value	Unit	Source
gf	118.45	kJ/mol	Joback Method
hf	-131.94	kJ/mol	Joback Method
hfus	25.41	kJ/mol	Joback Method
hvap	61.76	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	2.860		Crippen Method
mcvol	189.660	ml/mol	McGowan Method
pc	2480.12	kPa	Joback Method
tb	680.09	K	Joback Method
tc	919.63	K	Joback Method
tf	422.20	K	Joback Method
vc	0.723	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.59	J/molxK	680.09	Joback Method
cpg	541.84	J/molxK	720.01	Joback Method
cpg	558.06	J/molxK	759.94	Joback Method
cpg	573.47	J/molxK	799.86	Joback Method
cpg	588.29	J/molxK	839.79	Joback Method
cpg	602.76	J/molxK	879.71	Joback Method
cpg	617.08	J/molxK	919.63	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C339980&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C339980&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>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>mccvol:</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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