

4-Cyanobenzoic acid, undec-10-enyl ester

Inchi:	InChI=1S/C19H25NO2/c1-2-3-4-5-6-7-8-9-10-15-22-19(21)18-13-11-17(16-20)12-14-18/
InchiKey:	RSIRLJLMIYIZFR-UHFFFAOYSA-N
Formula:	C19H25NO2
SMILES:	C=CCCCCCCCCOC(=O)c1ccc(C#N)cc1
Mol. weight [g/mol]:	299.41

Physical Properties

Property code	Value	Unit	Source
gf	198.98	kJ/mol	Joback Method
hf	-164.92	kJ/mol	Joback Method
hfus	41.63	kJ/mol	Joback Method
hvap	79.79	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	5.022		Crippen Method
mvol	259.330	ml/mol	McGowan Method
pc	1410.13	kPa	Joback Method
rinpol	2322.00		NIST Webbook
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tb	840.83	K	Joback Method
tc	1048.65	K	Joback Method
tf	478.22	K	Joback Method
vc	1.022	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	774.67	J/molxK	840.83	Joback Method
cpg	789.17	J/molxK	875.47	Joback Method
cpg	802.68	J/molxK	910.10	Joback Method
cpg	815.26	J/molxK	944.74	Joback Method
cpg	826.94	J/molxK	979.37	Joback Method
cpg	837.75	J/molxK	1014.01	Joback Method
cpg	847.75	J/molxK	1048.65	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U299835&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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