

Etocrylene

Other names:

2-Cyano-3,3-diphenylacrylic acid ethyl ester
2-Propenoic acid, 2-cyano-3,3-diphenyl-, ethyl ester
«alpha»-Cyano-«beta»-phenylcinnamic acid, ethyl ester
Acrylic acid, 2-cyano-3,3-diphenyl-, ethyl ester
Acrylonitrile, 3,3-dicyclopropyl-2-(ethoxycarbonyl)-
CE 2
Ethyl «alpha»-cyan-«beta», «beta»-diphenylacrylate
Ethyl «alpha»-cyano-«beta», «beta»-diphenylacrylate
Ethyl (diphenylmethylene)cianoacetate
Ethyl 2-cyano-3,3-diphenylacrylate
USAF A-15972
Uvinul N 35
UV Absorber-2
Etocrilene
Ethyl 2-cyano-3,3-diphenyl-2-propenoate
NSC 52678

Inchi:

InChI=1S/C18H15NO2/c1-2-21-18(20)16(13-19)17(14-9-5-3-6-10-14)15-11-7-4-8-12-15/

InchiKey:

IAJNXBNRYMEYAZ-UHFFFAOYSA-N

Formula:

C18H15NO2

SMILES:

CCOC(=O)C(C#N)=C(c1ccccc1)c1ccccc1

Mol. weight [g/mol]:

277.32

CAS:

5232-99-5

Physical Properties

Property code	Value	Unit	Source
gf	287.88	kJ/mol	Joback Method
hf	75.93	kJ/mol	Joback Method
hfus	32.33	kJ/mol	Joback Method
hvap	79.97	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	3.575		Crippen Method
mcvol	221.480	ml/mol	McGowan Method
pc	2064.24	kPa	Joback Method
tb	846.89	K	Joback Method
tc	1096.66	K	Joback Method
tf	449.61	K	Joback Method
vc	0.860	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	621.63	J/mol×K	846.89	Joback Method
cpg	634.50	J/mol×K	888.52	Joback Method
cpg	646.26	J/mol×K	930.15	Joback Method
cpg	657.02	J/mol×K	971.78	Joback Method
cpg	666.87	J/mol×K	1013.41	Joback Method
cpg	675.92	J/mol×K	1055.03	Joback Method
cpg	684.27	J/mol×K	1096.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5232995&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
hvap:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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