Ethiofencarb

Other names:	Phenol, 2-[(ethylthio)methyl]-, methylcarbamate
	Arylmate
	Croneton
	2-[(Ethylsulfanyl)methyl]phenyl methylcarbamate
	Carbamic acid, methyl-, «alpha»-(ethylthio)-o-tolyl ester
	CHOX 1901
	Croneton 500
	HOX 1901
	«alpha»-Ethylthio-o-tolyl methylcarbamate
Inchi:	InChI=1S/C11H15NO2S/c1-3-15-8-9-6-4-5-7-10(9)14-11(13)12-2/h4-7H,3,8H2,1-2H3,(H,
InchiKey:	HEZNVIYQEUHLNI-UHFFFAOYSA-N
Formula:	C11H15NO2S
SMILES:	CCSCc1ccccc1OC(=O)NC
Mol. weight [g/mol]:	225.31
CAS:	56729-20-5

Physical Properties

Property code	Value	Unit	Source
gf	33.11	kJ/mol	Joback Method
hf	-194.77	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	65.43	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	2.658		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	1780.00		NIST Webbook
rinpol	1780.00		NIST Webbook
rinpol	1780.00		NIST Webbook
rinpol	1788.00		NIST Webbook
rinpol	1824.00		NIST Webbook
ripol	2378.00		NIST Webbook
ripol	2378.00		NIST Webbook
tb	677.98	K	Joback Method
tc	904.24	K	Joback Method
tf	411.89	K	Joback Method
vc	0.656	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.20	J/mol×K	677.98	Joback Method
cpg	461.98	J/mol×K	715.69	Joback Method
cpg	474.81	J/mol×K	753.40	Joback Method
cpg	486.70	J/mol×K	791.11	Joback Method
cpg	497.68	J/mol×K	828.82	Joback Method
cpg	507.75	J/mol×K	866.53	Joback Method
cpg	516.92	J/mol×K	904.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56729205&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume