4-Methoxycinnamonitrile,c&t

Other names:	4-Methoxycinnamonitrile cis + trans
	2-Propenenitrile, 3-(4-methoxyphenyl)-
	Cinnamonitrile, p-methoxy-
	p-Methoxycinnamonitrile
	cis,trans-4-methoxycinnamonitrile
Inchi:	InChI=1S/C10H9NO/c1-12-10-6-4-9(5-7-10)3-2-8-11/h2-7H,1H3/b3-2+
InchiKey:	CNBCNHHPIBKYBO-NSCUHMNNSA-N
Formula:	C10H9NO
SMILES:	COc1ccc(C=CC#N)cc1
Mol. weight [g/mol]:	159.18
CAS:	28446-68-6

Physical Properties

Property code	Value	Unit	Source
gf	244.50	kJ/mol	Joback Method
hf	125.21	kJ/mol	Joback Method
hfus	18.20	kJ/mol	Joback Method
hvap	53.64	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.232		Crippen Method
mcvol	130.950	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
tb	588.52	K	Joback Method
tc	820.00	K	Joback Method
tf	323.54	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.31	J/mol×K	588.52	Joback Method
cpg	301.65	J/mol×K	627.10	Joback Method
cpg	312.25	J/mol×K	665.68	Joback Method
cpg	322.15	J/mol×K	704.26	Joback Method

cpg	331.37	J/mol×K	742.84	Joback Method
cpg	339.95	J/mol×K	781.42	Joback Method
cpg	347.93	J/mol×K	820.00	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C28446686&Units=SI

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