

(3-(4-Methoxyphenyl)propionitrile

Other names:	3-(p-Methoxyphenyl)propionitrile Hydrocinnamonnitrile, p-methoxy- p-Methoxyhydrocinnamonnitrile
Inchi:	InChI=1S/C10H11NO/c1-12-10-6-4-9(5-7-10)3-2-8-11/h4-7H,2-3H2,1H3
InchiKey:	ORAXBZFDDWPRRD-UHFFFAOYSA-N
Formula:	C10H11NO
SMILES:	COc1ccc(CCC#N)cc1
Mol. weight [g/mol]:	161.20

Physical Properties

Property code	Value	Unit	Source
hfus	18.00	kJ/mol	Joback Method
ie	8.74	eV	Cheméo Relay (1.0)
log10ws	-2.55		Cheméo Relay (1.0)
logp	2.151		Crippen Method
mcvol	135.250	ml/mol	McGowan Method
tb	570.56	K	Cheméo Relay (1.0)
tf	299.58	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.69	J/mol×K	584.36	Joback Method
cpg	322.72	J/mol×K	621.28	Joback Method
cpg	334.06	J/mol×K	658.20	Joback Method
cpg	344.72	J/mol×K	695.12	Joback Method
cpg	354.71	J/mol×K	732.04	Joback Method
cpg	364.05	J/mol×K	768.96	Joback Method
cpg	372.76	J/mol×K	805.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22442484&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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