Mefenamic acid, Me

Inchi: InChI=1S/C17H19NO2/c1-12-8-7-11-15(13(12)2)18(3)16-10-6-5-9-14(16)17(19)20-4/h5-1
InchiKey: PFRQSQGCKREQHX-UHFFFAOYSA-N
Formula: C17H19NO2
SMILES: COC(=O)c1ccccc1N(C)c1cccc(C)c1C
Mol. weight [g/mol]: 269.34

Physical Properties

Property code	Value	Unit	Source
gf	165.05	kJ/mol	Joback Method
hf	-132.83	kJ/mol	Joback Method
hfus	32.51	kJ/mol	Joback Method
hvap	71.17	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	3.858		Crippen Method
mcvol	220.290	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
rinpol	2069.00		NIST Webbook
rinpol	2069.00		NIST Webbook
tb	745.39	K	Joback Method
tc	973.15	K	Joback Method
tf	476.38	K	Joback Method
vc	0.814	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.44	J/mol×K	745.39	Joback Method
cpg	625.50	J/mol×K	783.35	Joback Method
cpg	640.38	J/mol×K	821.31	Joback Method
cpg	654.10	J/mol×K	859.27	Joback Method
cpg	666.73	J/mol×K	897.23	Joback Method
cpg	678.30	J/mol×K	935.19	Joback Method
cpg	688.86	J/mol×K	973.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R40279&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume