Mefenamic acid, hydroxy, bis-methylated

Inchi: InChI=1S/C17H19NO3/c1-11-12(2)16(20-3)10-9-14(11)18-15-8-6-5-7-13(15)17(19)21-4/h
InchiKey: AUFWUTRPBFZXGK-UHFFFAOYSA-N
Formula: C17H19NO3
SMILES: COC(=O)c1ccccc1Nc1ccc(OC)c(C)c1C
Mol. weight [g/mol]: 285.34

Physical Properties

Property code	Value	Unit	Source
gf	29.03	kJ/mol	Joback Method
hf	-290.58	kJ/mol	Joback Method
hfus	35.39	kJ/mol	Joback Method
hvap	78.64	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	3.842		Crippen Method
mcvol	226.160	ml/mol	McGowan Method
pc	2054.89	kPa	Joback Method
rinpol	2400.00		NIST Webbook
tb	810.52	K	Joback Method
tc	1038.19	K	Joback Method
tf	531.32	K	Joback Method
vc	0.849	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.68	J/mol×K	810.52	Joback Method
cpg	664.14	J/mol×K	848.46	Joback Method
cpg	677.41	J/mol×K	886.41	Joback Method
cpg	689.48	J/mol×K	924.35	Joback Method
cpg	700.39	J/mol×K	962.30	Joback Method
cpg	710.13	J/mol×K	1000.24	Joback Method
cpg	718.72	J/mol×K	1038.19	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=R201764&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume