

2-(2-Acetoxy-5-methoxy-4-ethylphenyl)ethylamine

Other names:
N-acetyl-

4-ethyl-2,5-dimethoxy-«beta»-phenethylamine-M, (O-desmethyl-N-acetyl)-isomer

Inchi:

1, acetylated

InChI=1S/C15H21NO4/c1-5-12-8-15(20-11(3)18)13(9-14(12)19-4)6-7-16-10(2)17/h8-9H,

InchiKey:

DPHFARKJZJDYOT-UHFFFAOYSA-N

Formula:

C15H21NO4

SMILES:

CCc1cc(OC(C)=O)c(CCNC(C)=O)cc1OC

Mol. weight [g/mol]:

279.33

Physical Properties

Property code	Value	Unit	Source
gf	-219.51	kJ/mol	Joback Method
hf	-586.94	kJ/mol	Joback Method
hfus	38.15	kJ/mol	Joback Method
hvap	77.99	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	1.861		Crippen Method
mcvol	223.310	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinpol	2210.00		NIST Webbook
rinpol	2210.00		NIST Webbook
tb	786.97	K	Joback Method
tc	993.33	K	Joback Method
tf	519.77	K	Joback Method
vc	0.851	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.71	J/molxK	786.97	Joback Method
cpg	660.65	J/molxK	821.36	Joback Method
cpg	673.62	J/molxK	855.76	Joback Method
cpg	685.62	J/molxK	890.15	Joback Method
cpg	696.65	J/molxK	924.55	Joback Method
cpg	706.72	J/molxK	958.94	Joback Method
cpg	715.82	J/molxK	993.33	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U360332&Units=SI

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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