

N-(3-ethoxyphenyl)acetamide

Other names:	m-acetophenetidide m-ethoxyacetanilide
Inchi:	InChI=1S/C10H13NO2/c1-3-13-10-6-4-5-9(7-10)11-8(2)12/h4-7H,3H2,1-2H3,(H,11,12)
InchiKey:	YVTBOWVWYXJHLD-UHFFFAOYSA-N
Formula:	C10H13NO2
SMILES:	CCOc1cccc(NC(C)=O)c1
Mol. weight [g/mol]:	179.22

Physical Properties

Property code	Value	Unit	Source
af	0.6070		Cheméo Relay (1.0)
hf	-326.02	kJ/mol	Cheméo Relay (1.0)
hfus	28.90	kJ/mol	Vaporization and Sublimation Enthalpies of Acetanilide and Several Derivatives by Correlation Gas Chromatography
hvap	75.59	kJ/mol	Cheméo Relay (1.0)
ie	7.93	eV	Cheméo Relay (1.0)
log10ws	-2.25		Cheméo Relay (1.0)
logp	2.044		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	3076.16	kPa	Joback Method
tb	571.51	K	Cheméo Relay (1.0)
tc	786.30	K	Cheméo Relay (1.0)
tf	354.71	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.62	J/mol×K	586.32	Joback Method
cpg	360.93	J/mol×K	621.94	Joback Method
cpg	373.47	J/mol×K	657.55	Joback Method
cpg	385.26	J/mol×K	693.17	Joback Method
cpg	396.32	J/mol×K	728.79	Joback Method

cpg	406.66	J/mol×K	764.40	Joback Method
cpg	416.30	J/mol×K	800.02	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Vaporization and Sublimation
Enthalpies of Acetanilide and Several
Derivatives by Correlation Gas
Chromatography:
McGowan Method:

<https://www.doi.org/10.1021/je300152t>

https://en.wikipedia.org/wiki/Joback_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

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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

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