Acetamide, 2-(diethylamino)-N-(2,4,6-trimethylphenyl)-

Other names: Acetamide, 2-(diethylamino)-N-(2,4,6-trimethylphenyl)-
Acetanilide, 2-(diethylamino)-2',4',6'-trimethyl-
«omega»-Diethylaminoacetylaminomesitylene
Diethylglycinemesidide
Justecaina
Mesdicain
Mesidicaine
Mesokain
N-(Diethylaminoacetyl)-2,4,6-trimethylaniline
Trimecain
Trimekain
2-(Diethylamino)-2',4',6'-trimethylacetanilide
Mesidicain

Inchi: InChI=1S/C15H24N2O/c1-6-17(7-2)10-14(18)16-15-12(4)8-11(3)9-13(15)5/h8-9H,6-7,10

InchiKey: GOZBHBFUQHMKQB-UHFFFAOYSA-N

Formula: C15H24N2O

SMILES: CCN(CC)CC(=O)Nc1c(C)cc(C)cc1C

Mol. weight [g/mol]: 248.37

Physical Properties

Property code	Value	Unit	Source
hfus	37.20	kJ/mol	Joback Method
ie	7.24	eV	Cheméo Relay (1.0)
log10ws	-2.54		Cheméo Relay (1.0)
logp	2.892		Crippen Method
mcvol	219.980	ml/mol	McGowan Method
rinpol	1968.00		NIST Webbook
rinpol	1974.00		NIST Webbook
rinpol	1971.00		NIST Webbook
rinpol	1971.00		NIST Webbook
tf	361.74	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	613.67	J/mol×K	700.70	Joback Method
cpg	629.97	J/mol×K	734.05	Joback Method
cpg	645.33	J/mol×K	767.39	Joback Method
cpg	659.80	J/mol×K	800.74	Joback Method
cpg	673.40	J/mol×K	834.09	Joback Method
cpg	686.18	J/mol×K	867.44	Joback Method
cpg	698.17	J/mol×K	900.78	Joback Method

Sources

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):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C616682&Units=SI

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
rinpol: Non-polar retention indices
tf: Normal melting (fusion) point