

Trimecaine

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]:** 248.36**CAS:** 616-68-2

Physical Properties

Property code	Value	Unit	Source
gf	230.19	kJ/mol	Joback Method
hf	-142.39	kJ/mol	Joback Method
hfus	37.20	kJ/mol	Joback Method
hvap	68.47	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	2.892		Crippen Method
mcvol	219.980	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	1974.00		NIST Webbook
rinpol	1968.00		NIST Webbook
rinpol	1971.00		NIST Webbook
rinpol	1971.00		NIST Webbook
tb	700.70	K	Joback Method
tc	900.78	K	Joback Method
tf	457.85	K	Joback Method

vc

0.827

m³/kmol

Joback Method

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>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C616682&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

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

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