DIETHYLPROPION

Other names:	Amfepramone
	1-Propanone, 2-(diethylamino)-1-phenyl-
	Diethylcathionine
	Propiophenone, 2-(diethylamino)-
	«alpha»-Benzoyltriethylamine
	Adiposon
	Amfepramon
	Amphepramon
	Amphepramone
	Anorex
	Cegramine
	Danylen
	Derfon
	Diethylpropione
	Dobesin
	Frekentine
	Magrene
	Neobes
	Nopropiophenone
	Obesitex
	Silutin
	Tepanil
	Tylinal
	2-(Diethylaminopropio)phenone
	«alpha»-Diethylaminopropiophenone
	Fenyl-(1-diethylaminoethyl)keton
	1-Phenyl-2-diethylamino-1-propanone
	UR 1423
	Tenuate
Inchi:	InChI=1S/C13H19NO/c1-4-14(5-2)11(3)13(15)12-9-7-6-8-10-12/h6-11H,4-5H2,1-3H3
InchiKey:	XXEPPPIWZFICOJ-UHFFFAOYSA-N
Formula:	C13H19NO
SMILES:	CCN(CC)C(C)C(=O)c1ccccc1
Mol. weight [g/mol]:	205.30

Physical Properties

Property code	Value	Unit	Source

af	0.4934		Cheméo Relay (1.0)
chl	-7635.30 ± 1.10	kJ/mol	NIST Webbook
gf	150.41	kJ/mol	Joback Method
hf	-124.10 ± 1.50	kJ/mol	NIST Webbook
hfl	-195.70 ± 1.10	kJ/mol	NIST Webbook
hfus	24.56	kJ/mol	Joback Method
hvap	71.60 ± 1.00	kJ/mol	NIST Webbook
hvap	71.60 ± 1.00	kJ/mol	NIST Webbook
ie	7.88	eV	Cheméo Relay (1.0)
log10ws	-1.66		Cheméo Relay (1.0)
logp	2.600		Crippen Method
mcvol	181.820	ml/mol	McGowan Method
pc	2342.82	kPa	Joback Method
rinpol	1470.00		NIST Webbook
rinpol	1490.00		NIST Webbook
rinpol	1495.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1472.00		NIST Webbook
rinpol	1477.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1495.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1503.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1475.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1515.00		NIST Webbook
rinpol	1486.00		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1476.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1476.00		NIST Webbook
rinpol	1489.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1490.00		NIST Webbook
rinpol	1518.00		NIST Webbook
rinpol	1490.00		NIST Webbook
ripol	2032.00		NIST Webbook
ripol	1965.00		NIST Webbook
ripol	1991.00		NIST Webbook

ripol	1999.00		NIST Webbook
ripol	2011.00		NIST Webbook
ripol	2023.00		NIST Webbook
ripol	1982.00		NIST Webbook
ripol	2032.00		NIST Webbook
ripol	1965.00		NIST Webbook
ripol	1965.00		NIST Webbook
ripol	1982.00		NIST Webbook
tb	544.56	K	Cheméo Relay (1.0)
tc	743.58	K	Cheméo Relay (1.0)
tf	320.16	K	Cheméo Relay (1.0)
vc	0.637	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.16	J/mol×K	589.39	Joback Method
cpg	471.16	J/mol×K	623.77	Joback Method
cpg	487.11	J/mol×K	658.15	Joback Method
cpg	502.05	J/mol×K	692.53	Joback Method
cpg	516.05	J/mol×K	726.91	Joback Method
cpg	529.15	J/mol×K	761.30	Joback Method
cpg	541.38	J/mol×K	795.68	Joback Method

Sources

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=C90846&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume