

Etafenone

Other names:	1-Propanone, 1-[2-[2-(diethylamino)ethoxy]phenyl]-3-phenyl-2'-[2-(Diethylamino)ethoxy]-3-phenylpropiophenone LG-11457
Inchi:	InChI=1S/C21H27NO2/c1-3-22(4-2)16-17-24-21-13-9-8-12-19(21)20(23)15-14-18-10-6-5
InchiKey:	OEGDFSLNGABBKJ-UHFFFAOYSA-N
Formula:	C21H27NO2
SMILES:	CCN(CC)CCOc1ccccc1C(=O)CCc1ccccc1
Mol. weight [g/mol]:	325.44
CAS:	90-54-0

Physical Properties

Property code	Value	Unit	Source
gf	217.99	kJ/mol	Joback Method
hf	-192.45	kJ/mol	Joback Method
hfus	43.65	kJ/mol	Joback Method
hvap	78.75	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.223		Crippen Method
mcvol	276.650	ml/mol	McGowan Method
pc	1546.35	kPa	Joback Method
rinpol	2434.00		NIST Webbook
rinpol	2434.00		NIST Webbook
tb	826.95	K	Joback Method
tc	1042.09	K	Joback Method
tf	496.42	K	Joback Method
vc	1.038	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	837.45	J/molxK	826.95	Joback Method
cpg	854.35	J/molxK	862.81	Joback Method
cpg	870.02	J/molxK	898.66	Joback Method
cpg	884.52	J/molxK	934.52	Joback Method

cpg	897.91	J/mol×K	970.38	Joback Method
cpg	910.27	J/mol×K	1006.23	Joback Method
cpg	921.66	J/mol×K	1042.09	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.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=C90540&Units=SI

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
mvol:	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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