Succinic acid, phenyl 2-(dimethylamino)ethyl ester

Inchi: InChI=1S/C14H19NO4/c1-15(2)10-11-18-13(16)8-9-14(17)19-12-6-4-3-5-7-12/h3-7H,8-1

InchiKey: GLLJYZFYNBBXMR-UHFFFAOYSA-N

Formula: C14H19NO4

SMILES: CN(C)CCOC(=O)CCC(=O)Oc1ccccc1

Mol. weight [g/mol]: 265.31

Physical Properties

Property code	Value	Unit	Source
gf	-177.65	kJ/mol	Joback Method
hf	-517.83	kJ/mol	Joback Method
hfus	34.65	kJ/mol	Joback Method
hvap	69.39	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.477		Crippen Method
mcvol	209.220	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	2022.00		NIST Webbook
rinpol	2022.00		NIST Webbook
tb	711.42	K	Joback Method
tc	914.38	K	Joback Method
tf	450.75	K	Joback Method
vc	0.777	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	580.18	J/mol×K	711.42	Joback Method
cpg	594.87	J/mol×K	745.25	Joback Method
cpg	608.60	J/mol×K	779.07	Joback Method
cpg	621.39	J/mol×K	812.90	Joback Method
cpg	633.27	J/mol×K	846.73	Joback Method
cpg	644.25	J/mol×K	880.55	Joback Method
cpg	654.35	J/mol×K	914.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357990&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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