Succinic acid, 3-methylbut-2-yl phenethyl ester

Inchi: InChI=1S/C17H24O4/c1-13(2)14(3)21-17(19)10-9-16(18)20-12-11-15-7-5-4-6-8-15/h4-8,

InchiKey: LVCKWCKLCAZAHG-UHFFFAOYSA-N

Formula: C17H24O4

SMILES: CC(C)C(C)OC(=O)CCC(=O)OCCc1ccccc1

Mol. weight [g/mol]: 292.37

Physical Properties

Property code	Value	Unit	Source
gf	-268.05	kJ/mol	Joback Method
hf	-657.84	kJ/mol	Joback Method
hfus	32.35	kJ/mol	Joback Method
hvap	73.25	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.140		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1720.31	kPa	Joback Method
rinpol	2070.00		NIST Webbook
rinpol	2070.00		NIST Webbook
tb	766.74	K	Joback Method
tc	971.85	K	Joback Method
tf	422.09	K	Joback Method
vc	0.915	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	706.16	J/mol×K	766.74	Joback Method
cpg	722.12	J/mol×K	800.92	Joback Method
cpg	736.98	J/mol×K	835.11	Joback Method
cpg	750.76	J/mol×K	869.29	Joback Method
cpg	763.50	J/mol×K	903.48	Joback Method
cpg	775.20	J/mol×K	937.66	Joback Method
cpg	785.90	J/mol×K	971.85	Joback Method
dvisc	0.0013048	Pa×s	422.09	Joback Method

dvisc	0.0005967	Pa×s	479.53	Joback Method
dvisc	0.0003226	Pa×s	536.97	Joback Method
dvisc	0.0001964	Pa×s	594.41	Joback Method
dvisc	0.0001305	Pa×s	651.86	Joback Method
dvisc	0.0000927	Pa×s	709.30	Joback Method
dvisc	0.0000693	Pa×s	766.74	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=U389743&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
dvisc:	Dynamic viscosity
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