

Di(2-ethylbutyl)-3,4-diphenyl adipate

Inchi:	InChI=1S/C30H42O4/c1-5-23(6-2)21-33-29(31)19-27(25-15-11-9-12-16-25)28(26-17-13-
InchiKey:	WZZDDPWSRZHHMB-UHFFFAOYSA-N
Formula:	C30H42O4
SMILES:	CCC(CC)COC(=O)CC(c1ccccc1)C(CC(=O)OCC(CC)CC)c1ccccc1
Mol. weight [g/mol]:	466.65

Physical Properties

Property code	Value	Unit	Source
gf	-51.06	kJ/mol	Joback Method
hf	-700.19	kJ/mol	Joback Method
hfus	53.02	kJ/mol	Joback Method
hvap	103.69	kJ/mol	Joback Method
log10ws	-7.76		Crippen Method
logp	7.293		Crippen Method
mcvol	400.920	ml/mol	McGowan Method
pc	911.63	kPa	Joback Method
tb	1089.98	K	Joback Method
tc	1334.64	K	Joback Method
tf	565.02	K	Joback Method
vc	1.524	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1386.50	J/molxK	1089.98	Joback Method
cpg	1401.30	J/molxK	1130.76	Joback Method
cpg	1414.39	J/molxK	1171.53	Joback Method
cpg	1425.86	J/molxK	1212.31	Joback Method
cpg	1435.82	J/molxK	1253.08	Joback Method
cpg	1444.39	J/molxK	1293.86	Joback Method
cpg	1451.67	J/molxK	1334.64	Joback Method
dvisc	0.0002731	Paxs	565.02	Joback Method
dvisc	0.0001034	Paxs	652.51	Joback Method
dvisc	0.0000493	Paxs	740.01	Joback Method

dvisc	0.0000275	Paxs	827.50	Joback Method
dvisc	0.0000171	Paxs	914.99	Joback Method
dvisc	0.0000116	Paxs	1002.49	Joback Method
dvisc	0.0000084	Paxs	1089.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000784&Units=SI
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

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
hvac:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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