

1,2-Cyclohexanedicarboxylic acid, allyl isoheptyl ester

Inchi:	InChI=1S/C17H28O4/c1-4-11-20-16(18)14-9-5-6-10-15(14)17(19)21-12-7-8-13(2)3/h4,13
InchiKey:	LWLZLLLXKPWEIQ-UHFFFAOYSA-N
Formula:	C17H28O4
SMILES:	C=CCOC(=O)C1CCCCC1C(=O)OCCCC(C)C
Mol. weight [g/mol]:	296.40

Physical Properties

Property code	Value	Unit	Source
gf	-273.44	kJ/mol	Joback Method
hf	-729.68	kJ/mol	Joback Method
hfus	33.46	kJ/mol	Joback Method
hvap	70.81	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.501		Crippen Method
mvol	250.110	ml/mol	McGowan Method
pc	1554.90	kPa	Joback Method
rinpol	1972.00		NIST Webbook
rinpol	1972.00		NIST Webbook
tb	752.06	K	Joback Method
tc	952.12	K	Joback Method
tf	412.05	K	Joback Method
vc	0.943	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.52	J/molxK	752.06	Joback Method
cpg	783.24	J/molxK	785.40	Joback Method
cpg	800.75	J/molxK	818.75	Joback Method
cpg	817.04	J/molxK	852.09	Joback Method
cpg	832.15	J/molxK	885.43	Joback Method
cpg	846.08	J/molxK	918.78	Joback Method
cpg	858.85	J/molxK	952.12	Joback Method
dvisc	0.0015957	Paxs	412.05	Joback Method

dvisc	0.0007670	Paxs	468.72	Joback Method
dvisc	0.0004318	Paxs	525.39	Joback Method
dvisc	0.0002718	Paxs	582.05	Joback Method
dvisc	0.0001858	Paxs	638.72	Joback Method
dvisc	0.0001351	Paxs	695.39	Joback Method
dvisc	0.0001031	Paxs	752.06	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=U339483&Units=SI

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

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