

Cyclohexanecarboxylic acid, 4-benzyloxyphenyl ester

Inchi:	InChI=1S/C20H22O3/c21-20(17-9-5-2-6-10-17)23-19-13-11-18(12-14-19)22-15-16-7-3-1
InchiKey:	WFTHG CZJTHGGCB-UHFFFAOYSA-N
Formula:	C20H22O3
SMILES:	O=C(Oc1ccc(OCc2ccccc2)cc1)C1CCCCC1
Mol. weight [g/mol]:	310.39

Physical Properties

Property code	Value	Unit	Source
gf	18.24	kJ/mol	Joback Method
hf	-317.24	kJ/mol	Joback Method
hfus	31.06	kJ/mol	Joback Method
hvap	77.32	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	4.751		Crippen Method
mvol	247.590	ml/mol	McGowan Method
pc	1963.07	kPa	Joback Method
rinpol	2589.00		NIST Webbook
rinpol	2589.00		NIST Webbook
tb	833.60	K	Joback Method
tc	1080.64	K	Joback Method
tf	482.29	K	Joback Method
vc	0.914	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	760.92	J/molxK	833.60	Joback Method
cpg	832.72	J/molxK	1039.47	Joback Method
cpg	821.66	J/molxK	998.29	Joback Method
cpg	809.01	J/molxK	957.12	Joback Method
cpg	794.71	J/molxK	915.95	Joback Method
cpg	778.70	J/molxK	874.77	Joback Method
cpg	842.25	J/molxK	1080.64	Joback Method
dvisc	0.0000602	Paxs	833.60	Joback Method

dvisc	0.0000777	Paxs	775.05	Joback Method
dvisc	0.0001046	Paxs	716.50	Joback Method
dvisc	0.0001486	Paxs	657.94	Joback Method
dvisc	0.0002260	Paxs	599.39	Joback Method
dvisc	0.0003764	Paxs	540.84	Joback Method
dvisc	0.0007094	Paxs	482.29	Joback Method

Sources

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=U307710&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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