trans-di-2-butyl-diazene

Inchi:	InChI=1S/C8H18N2/c1-5-7(3)9-10-8(4)6-2/h7-8H,5-6H2,1-4H3/b10-9+
InchiKey:	GRXNCUZPWWIDKG-MDZDMXLPSA-N
Formula:	C8H18N2
SMILES:	CCC(C)N=NC(C)CC
Mol. weight [g/mol]:	142.24

Physical Properties

Property code	Value	Unit	Source
hf	-171.79	kJ/mol	Joback Method
hvap	39.30	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	3.036		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	868.40		NIST Webbook
tb	530.76	K	Joback Method
tc	733.01	K	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=R166488&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	Enthalpy of formation 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

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https://www.chemeo.com/cid/70-042-7/trans-di-2-butyl-diazene.pdf

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