Supplementary Data: Autoignition-affected stabilization of laminar nonpremixed DME/air coflow flames

Sili Deng, Peng Zhao, Michael E. Mueller*, Chung K. Law

Department of Mechanical and Aerospace Engineering, Princeton University, Princeton, NJ 08544, USA

The constant nonunity Lewis numbers adopted in this study are listed in the table below.

Species	Lewis Number	Species	Lewis Number
N ₂	1.031	CH ₂ (S)	0.922
Н	0.173	C_2H_4	1.077
O_2	1.031	CH ₃ HCO	1.429
O	0.672	C_2H_2	1.137
ОН	0.684	C_2H_3	1.148
H_2	0.287	CH ₃ OCH ₃	1.665
H_2O	0.764	CH_3OCH_2	1.658
HO_2	1.038	CH_3OCH_2O	1.909
H_2O_2	1.045	CH ₃ OCHO	1.812
CO	1.046	CH ₃ OCO	1.807
CO_2	1.324	$CH_3OCH_2O_2$	1.806
HCO	1.189	CH ₃ OCH ₂ OH	1.751
CH_3	0.943	$\mathrm{CH_2OCH_2O_2H}$	1.806
CH_4	0.947	$\mathrm{O_2CH_2OCH_2O_2H}$	1.881
CH_2O	1.198	HO_2CH_2OCHO	1.847
CH_3O	1.223	OCH ₂ OCHO	1.800
C_2H_6	1.385	$HOCH_2OCO$	1.800
$\mathrm{CH_{2}OH}$	1.223	$HOCH_2O$	1.327
C_2H_5	1.374	НСООН	1.627
CH ₂	0.922		

^{*}Corresponding Author: muellerm@princeton.edu