Charged particle transport properties				
Electron drift velocity	v_D(e-)	1.60(2)	mm/μs	At T_{NBP} [22-25]
… variation wrt temperature	δLog(v_D)/δT	-1.9	%/K	
… variation wrt field	δLog(v_D)/δE	+0.094	%/(V/cm)	
Electron saturation drift velocity	v_{SAT}(e-)	6.6	mm/μs	[39]
Electron mobility at zero field	μ_0	518(2)	cm^2/V s	At T_{NBP}
Ion drift velocity	v_D(Ion)	8.0(4)x10^{-6}	mm/μs	At T_{NBP} [26]
… variation wrt temperature	δLog(v_D)/δT	+3.5	%/K	
… variation wrt field	δLog(v_D)/δE	+0.2	%/(V/cm)	
Electron transverse diffusion coef.	D_T(e-)	13(2)	cm^2/s	[27,28,29]
Electron longitudinal diffusion coef.	D_L(e-)	5(1)	cm^2/s	[29,30]
Electron diffusion at zero field	D_0	3.9	cm^2/s	At T_{NBP}
Ion diffusion coefficient	D_+	3.2x10^{-3}	cm^2/s	for TE
Recombination constant	R	0.66		For mip [31,32]
Electron attachment rate constant	k_S	2.0x10^3	ppb^{-1} s^{-1}	For O_2 [33-37]

Isotopic composition and radiological purity

Isotope	Relative Mass	Abundance[3]	Decay Mode[3]	Half Life[3]	Q-value (MeV)[3]
36	35.967 546 28(27)	0.337(3)	stable	-	-
37		nil	EC, β^+	35.04 d	0.8135(3)
38	37.962 732 2(5)	0.063(1)	stable	-	-
39		1.01(8) Bq/kg [1]	β^-	269 y	0.565(5)
40	39.962 383 123(3)	99.600(3)	stable	-	-
41		nil	β^-	109.34 m	2.4916(7)
42		6×10^{-5} Bq/kg [2]	β^-	32.9 y	0.599(40)

Also ^{85}Kr (β^-, E_β =0.687 MeV, $t_{1/2}$=10.756 y) is a common radioactive contaminant of LAr at the level of 0.1 to 0.3 Bq/kg